PIONEER
The Art of Entertainment

Service Manual

ORDER NO.
ARP2233

STEREO RECEIVER

SX-31 KU

SX-777 HE,HB,HEWZ

SX−31 AND SX−777 HAVE THE FOLLOWING :

Type	Model		Power Requirement	Remarks
	SX−31	SX−777		
KU	○	——	AC120V only	
HE	——	○	AC220V−230V, 240V (Switchable) ＊	
HB	——	○	AC220V−230V, 240V (Switchable) ＊	
HEWZ	——	○	AC220V−230V, 240V (Switchable) ＊	

＊ Change the connection of the power transformer primary taps.

- **This manual is applicable to the**

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.
PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada
PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

© PIONEER ELECTRONIC CORPORATION 1991

YX APR. 1991 Printed in Japan

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

The , SX-777/HE, HB and HEWZ types are the same as the SX-757/HE type with the exception of the following sections.

Mark	Symbol & Description	Part No.					Remarks
		SX-757/ HE type	SX-31/ KU type	SX-777/ HE type	SX-777/ HB type	SX-777/ HEWZ type	
⊙	CONTROL assembly	AWZ3001	AWZ3509	AWZ3511	AWZ3511	AWZ3511	
⊙	COMPLEX assembly	AWZ3006	AWZ3508	AWZ3513	AWZ3513	AWZ3510	*1
	SP SWITCH assembly	Non supply	Non supply	Non supply	Non supply	Non supply	*2
	SP TERMINAL assembly	Non supply	Non supply	Non supply	Non supply	Non supply	*3
	LINE FILTER assembly	……………	……………	……………	……………	Non supply	
⚠	T1 Power transformer	ATS1284	ATS1283	ATS1341	ATS1341	ATS1341	
⚠	C1 KCA (0.022/AC400V)	ACG1030	ACG1030	ACG1030	ACG1030	……………	
⚠	C1 Power capacitor (0.1/AC250V)	……………	……………	……………	……………	ACE-507	
	C2	CQMXA104J100	……………	CQMXA104J100	CQMXA104J100	CQMXA104J100	
	C3	……………	……………	……………	……………	CQMXA104J100	
⚠	FU1 Fuse (T2.5A/250V)	AEK-403	……………	AEK-512	AEK-512	AEK-512	
⚠	FU1 Fuse (8A/125V)	……………	AEK-304	……………	……………	……………	
⚠	FU3, FU4 Fuse (T800mA/250V)	AEK-031	……………	AEK-507	AEK-507	AEK-507	
⚠	FU3, FU4 Fuse (1.25A/125V)	……………	AEK-120	……………	……………	……………	
⚠	AC Power cord	ADG1021	ADG1057	ADG1021	ADG1085	ADG1021	
	Tact knob	……………	AAD1398	AAD1398	AAD1398	AAD1398	
	Push knob	……………	AAD1771	AAD1771	AAD1771	AAD1771	
	Station knob	AAD1810	AAD1982	AAD1982	AAD1982	AAD1982	
	Color plate	AAK1979	AAK1980	AAK1979	AAK1979	AAK1979	
	Acrylic panel	AAK1987	AAK1986	AAK2124	AAK2124	AAK2124	
	Screw	ABA-297	……………	ABA-297	ABA-297	ABA-297	
	Screw	……………	ABA1082	……………	……………	……………	
	Mica sheet	AEC1123	AEE1014	AEC1123	AEC1123	AEC1123	
	Insulator assembly	AMR1434	……………	……………	……………	……………	
	Insulator assembly	AMR1435	……………	……………	……………	……………	
	Leg assembly	……………	AMR1159	AMR1159	AMR1159	AMR1159	
	Front panel	ANB1408	ANB1470	ANB1448	ANB1448	ANB1448	
	FM antenna	ADH1004	ADH1004	ADH1004	ADH1004	……………	
	FM antenna assembly	……………	……………	……………	……………	ADH1002	
	Packing case	AHD1886	AHD2065	AHD2029	AHD2029	AHD2029	
	Remote control unit	AXD1153	AXD1213	AXD1213	AXD1213	AXD1213	

Mark	Symbol & Description	Part No.					Remarks
		SX−757/ HE type	SX−31/ KU type	SX−777/ HE type	SX−777/ HB type	SX−777/ HEWZ type	
	Operating instructions (English, French, German, Italian, Dutch, Swedish, Spanish, Portuguese)	ARE1168	....	ARE1192	....	....	
	Operating instructions (English)	....	ARB1316	....	ARB1317	....	
	Operating instructions (German)	....	....	....	....	ARC1266	

*1 :Refer to pages 5−9.
*2 :The SP SWITCH assemblies of the SX−757, SX−777/HE and HB types are the same.
*3 :The SP TERMINAL assemblies of the SX−757/HE, SX−31/KU, SX−777/HE and HB types are the same.

SP TERMINAL assembly (SX−777/HEWZ type)

The SP TERMINAL assembly (SX−777/HEWZ type) is the same as the SP TERMINAL assembly (SX−757/HE type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		SX−757/HE type	SX−777/HEWZ type	
	L951−L954	....	ATH−133	
	C951−C954	....	CKDYF103Z50	
	C955−C958	....	CKDYB681K50	
⚠	R951−R954	....	RD1/2PMF101J	
⚠	R955−R958	....	RD1/4PMF100J	

SP SWITCH assemblies (SX−31/KU and SX−777/HEWZ types)

The SP SWITCH assemblies (SX−31/KU and SX−777/HEWZ types) are the same as the SP SWITCH assembly (SX−757/HE type) with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		SX−757/ HE type	SX−31/ KU type	SX−777/ HEWZ type	
	S570	SUJ5LXXS	SUJ5LXYS	SUJ5LXXS	
	C571, C572	....	....	CKDYB392K50	
⚠	R571, R572	RS2LMF331J	RS3LMF331J	RS2LMF331J	
⚠	R573, R574	....	....	RS1PMF681J	

⊙ CONTROL assemblies (AWZ3509 and AWZ3511)

The CONTROL assemblies (AWZ3509 and AWZ3511) are the same as the CONTROL assembly (AWZ3001) with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		AWZ3001	AWZ3509	AWZ3511	
	IC801	PDG058−A	PDG058	PDG058	
	Q801	RN1203	XDC124ES	XDC124ES	
	Q804	RN1201	XDC143ES	XDC143ES	
	Q891	....	XDC143ES	XDC143ES	
	D891	....	AEL1072	AEL1072	
	S802, S822 (HITS, MUTE)	....	ASG1034	ASG1034	
	C321, C322	....	CCCSL390J50	CCCSL390J50	
	C323, C324	....	CEAS100M25	CEAS100M25	
	C325, C326	....	CFTXA104J50	CFTXA104J50	
	C327, C328	....	CFTXA823J50	CFTXA823J50	
	R327, R328	RD1/8PM122J	RD1/8PM332J	RD1/8PM332J	
	R329, R330	RD1/8PM152J	RD1/8PM821J	RD1/8PM821J	
	R331, R332	....	RD1/8PM154J	RD1/8PM154J	
	R333, R334	....	RD1/8PM332J	RD1/8PM332J	
	R335, R336	....	RD1/8PM182J	RD1/8PM182J	
	R337, R338	....	RD1/8PM392J	RD1/8PM392J	
	R339, R340	....	RD1/8PM223J	RD1/8PM223J	
	R341, R342	....	RD1/8PM152J	RD1/8PM152J	
	R343, R344	....	RD1/8PM122J	RD1/8PM122J	
	R808	RD1/8PM473J	....	....	
	R814	....	RD1/8PM473J	....	
	R815	....	RD1/8PM222J	RD1/8PM222J	
	R891	....	RD1/8PM221J	RD1/8PM221J	

LINE FILTER assembly (SX−777/HEWZ type)

COIL

Mark	No.	Description	Parts No.
	L701	LINE FILTER	ATF−151

2. PCB's PARTS LIST

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω 56 × 10¹ 561.........................RD1/4PS $\boxed{5}$ $\boxed{6}$ $\boxed{1}$ *J*
47kΩ 47 × 10³ 473.........................RD1/4PS $\boxed{4}$ $\boxed{7}$ $\boxed{3}$ *J*
0.5Ω 0R5..RN2H $\boxed{0}$ $\boxed{R}$ $\boxed{5}$ *K*
1Ω 010..RS1P $\boxed{0}$ $\boxed{1}$ $\boxed{0}$ *K*

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62kΩ 562 × 10¹ 5621.......................RN1/4SR $\boxed{5}$ $\boxed{6}$ $\boxed{2}$ $\boxed{1}$ *F*

⊙ COMPLEX ASSEMBLY (AWZ3508)

For this assembly, AWZ3508 (SX−31/KU type) parts are listed, then other model's corresponding assemblies are compared with AWZ3508.

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC111	AM/FM IC	LA1265S
	IC131	PLL IC	LM7001
	IC151	MPX IC	AN7470P
	IC201	OP−AMP−IC	M5220P
	IC202	E−SW IC	TC9164N
	IC253	OP−AMP IC	NJM4558S−X
	IC701	REGULATOR IC	M5F78M12L
	IC702	REGULATOR IC	M5F79M12L
	IC751	REGULATOR IC	M5278L56 (A)
	Q101	TRANSISTOR	2SC2668
	Q102, 103	TRANSISTOR	XDA143ES
	Q131	N−FET	2SK246
	Q132	TRANSISTOR	2SC1740SLN
	Q133	TRANSISTOR	2SC1740S
	Q151, 152	TRANSISTOR	2SC1740S
	Q153	TRANSISTOR	2SA1048
	Q261, 262	TRANSISTOR	XDC124ES
	Q401−404	TRANSISTOR	2SC2878
	Q421	TRANSISTOR	2SA1048
	Q422	TRANSISTOR	XDC143ES
	Q423	TRANSISTOR	2SC2458
	Q501−504	TRANSISTOR	2SA992
	Q513, 514	TRANSISTOR	2SC1845
	Q521, 522	TRANSISTOR	2SA1145
	Q523, 524	TRANSISTOR	2SC2705
	Q551, 552	TRANSISTOR	2SC3298
	Q553, 554	TRANSISTOR	2SA1306
	Q601, 602	TRANSISTOR	2SC2458
	Q603	TRANSISTOR	2SA1048
	Q604	TRANSISTOR	2SC2458
	Q605	TRANSISTOR	XDC124ES
	Q606	TRANSISTOR	XDC143ES
	Q621, 622	TRANSISTOR	2SC2240
	Q751	TRANSISTOR	XDC143ES
	Q752	TRANSISTOR	2SC2458
	D111−115	DIODE	HSS104−02
	D513, 514	DIODE	HSS104−02
	D521−524	DIODE	HSS104−02
	D561	DIODE	HSS104−02
	D601	ZENER DIODE	HZS12AL
	D621−626	DIODE	HSS104−02
	D701	DIODE	D5SB20F
	D702, 703	DIODE	S5566
	D705	ZENER DIODE	HZS24−2L
	D706	ZENER DIODE	HZS6B2L
	D708−710	DIODE	HSS104−02
	D711	ZENER DIODE	HZS7B2L
	D712	ZENER DIODE	HZS6B2L
	D713	DIODE	S5566
	D714	DIODE	HSS104−02
	D715, 716	DIODE	S5566
	D751, 752	DIODE	S5566
	D754	DIODE	HSS104−02
	D756, 757	DIODE	HSS104−02
RELAIES			
	RY561	RELAY	ASR−112
	RY751	RELAY	ASR1027

COILS & TRANSFORMERS

Mark	No.	Description	Parts No.
	L111	COIL	ATE−079
	L112, 131	AXIAL INDUCTOR	LAU2R2M
	L561, 562	COIL	ATH1004
	F101, 102	CERAMIC FILTER	ATF−107
	F111	CERAMIC FILTER	ATF−208
	T751	POWER TRANSFORMER	ATT1011

CAPACITORS

Mark	No.	Description	Parts No.
	C101−104	CERAMIC CAPACITOR	ACG1021
	C105, 106	CERAMIC CAPACITOR	CKDYF223Z50
	C107	CERAMIC CAPACITOR	CKDYF473Z50
	C109	CERAMIC CAPACITOR	CKDYX104M25
	C111, 112	CERAMIC CAPACITOR	CKDYF223Z50
	C113	ELECTR.CAPACITOR	CEAS330M16
	C114	CERAMIC CAPACITOR	ACG1021
	C115	CERAMIC CAPACITOR	CKDYF103Z50
	C116	ELECTR.CAPACITOR	CEAS010M50
	C117	CERAMIC CAPACITOR	ACG1018
	C118	CERAMIC CAPACITOR	CKDYX103M25
	C119	ELECTR.CAPACITOR	CEAS100M50
	C120	ELECTR.CAPACITOR	CEAS2R2M50
	C121	CERAMIC CAPACITOR	CKDYF222Z50
	C122	CERAMIC CAPACITOR	CKDYF473Z50
	C123	ELECTR.CAPACITOR	CEAS4R7M50
	C124	ELECTR.CAPACITOR	CEAS470M10
	C125, 130	CERAMIC CAPACITOR	ACG1021
	C131, 132	CERAMIC CAPACITOR	CCDCH150J50
	C133	CERAMIC CAPACITOR	ACG1021
	C134	CERAMIC CAPACITOR	CKDYF103Z50
	C135	CERAMIC CAPACITOR	ACG1016
	C136	ELECTR.CAPACITOR	CEAS330M16
	C137	AUDIO FILM CAPACITOR	CFTXA224J50
	C138, 139	CERAMIC CAPACITOR	ACG1021
	C140	ELECTR.CAPACITOR	CEAS470M16
	C141	CERAMIC CAPACITOR	CKDYF473Z50
	C151	ELECTR.CAPACITOR	CEANP4R7M35
	C152	CERAMIC CAPACITOR	CKDYF473Z50
	C153, 154	MYLOR FILM CAPACITOR	CQMA152J50
	C155, 156	ELECTR.CAPACITOR	CEAS4R7M50
	C157, 158	CERAMIC CAPACITOR	CKDYB182K50
	C159	ELECTR.CAPACITOR	CEAS470M16
	C160	CERAMIC CAPACITOR	ACG1021
	C161	ELECTR.CAPACITOR	CEASR22M50
	C162	ELECTROLYTIC CAPACIT	CEAS1R5M50
	C163	ELECTR.CAPACITOR	CEAS3R3M50
	C164	CAPACITOR	ACE1039
	C167	CERAMIC CAPACITOR	CCCSL101J50
	C201	ELECTR.CAPACITOR	CEAS010M50
	C231, 232	ELECTR.CAPACITOR	CEAS100M50
	C233, 234	CERAMIC CAPACITOR	CCCSL221J50
	C235, 236	ELECTROLYTIC CAPACIT	CEAS471M6
	C237, 238	AUDIO FILM CAPACITOR	CFTXA243J50
	C239, 240	AUDIO FILM CAPACITOR	CFTXA823J50
	C241, 242	ELECTR.CAPACITOR	CEAS2R2M50
	C243, 244	CERAMIC CAPACITOR	CKDYF103Z50
	C245, 246	ELECTR.CAPACITOR	CEAS470M16
	C247, 248	CERAMIC CAPACITOR	CKCYB331K50
	C249	CERAMIC CAPACITOR	CKCYB471K50
	C251, 252	ELECTR.CAPACITOR	CEAS2R2M50
	C253, 254	ELECTR.CAPACITOR	CEAS4R7M50
	C256, 257	CERAMIC CAPACITOR	CKDYF103Z50
	C409, 410	ELECTR.CAPACITOR	CEAS4R7M50
	C501, 502	ELECTR.CAPACITOR	CEAS2R2M50
	C503, 504	MYLOR FILM CAPACITOR	CQMA471J50
	C505, 506	CERAMIC CAPACITOR	CKDYB681K50
	C508	ELECTR.CAPACITOR	CEAS101M16
	C509−512	CERAMIC CAPACITOR	CCCSL470J50
	C521, 522	ELECTR.CAPACITOR	CEAS220M16
	C523, 524	CERAMIC CAPACITOR	CCCSL060D500
	C525, 526	CERAMIC CAPACITOR	CCCSL050C500
	C529, 530	ELECTR.CAPACITOR	CEAS101M10
	C551−554	CERAMIC CAPACITOR	CCCSL101K500
	C561, 562	AUDIO FILM CAPACITOR	CFTXA473J50
	C601	ELECTROLYTIC CAPACIT	CEAS471M6
	C602	CERAMIC CAPACITOR	CKDYF103Z50
	C603	ELECTR.CAPACITOR	CEAS101M16
	C605	ELECTR.CAPACITOR	CEAS4R7M50
	C621, 622	ELECTR.CAPACITOR	CEANP2R2M50
	C701	ELECTROLYTIC CAPACIT	ACH1200
	C702	ELECTROLYTIC CAPACIT	ACH1199
	C703	ELECTROLYTIC CAPACIT	CEAS102M35
	C704	ELECTR.CAPACITOR	CEAS100M50
	C705	ELECTROLYTIC CAPACIT	CEAS470M35
	C706	ELECTR.CAPACITOR	CEAS100M25
	C707	CEA (47000/5.5V)	ACH1037
⚠	C708	CKA (0.01/AC400V)	ACG1002
	C709	CKA (0.01/AC250V)	ACG1005
	C710	ELECTR.CAPACITOR	CEAS470M10

Mark	No.	Description	Parts No.
	C711	ELECTROLYTIC CAPACIT	CEAS471M35
	C751	CERAMIC CAPACITOR	CKDYF103Z50
	C752	ELECTROLYTIC CAPACIT	CEAS471M25
	C753	ELECTR.CAPACITOR	CEAS470M10
⚠	C754	CKA (0.01/AC400V)	ACG1002
RESISTORS			
	VR151	VR (4.7K)	ACP1024
	R501, 502	CARBON FILM RESISTOR	RDR1/4PM561J
	R513−516	FUSIBLE RESISTOR	RFA1/4PS391J
	R521, 522	CARBON FILM RESISTOR	RDR1/4PM512J
	R523, 524	CARBON FILM RESISTOR	RDR1/4PM104J
	R525, 526	CARBON FILM RESISTOR	RD1/4PM104J
⚠	R527, 528	CARBON FILM RESISTOR	RD1/4PMF121J
⚠	R529, 530	FUSIBLE RESISTOR	RFA1/4PS101J
	R531, 532	CARBON FILM RESISTOR	RD1/4PM563J
⚠	R551−554	FUSIBLE RESISTOR	RFA1/4PS101J
	R555−558	CARBON FILM RESISTOR	RD1/4PMF101J
⚠	R561, 562	RESISTOR (0.33, 5W)	ACN−139
⚠	R563, 564	CARBON FILM RESISTOR	RD1/4PMF100J
	R565, 566	METAL OXIDE RESISTOR	RS1LMF100J
	R575−578	FUSIBLE RESISTOR	RFA1/4PS4R7J
⚠	R608	CARBON FILM RESISTOR	RD1/4PMF151J
	R610	FUSIBLE RESISTOR	RFA1/4PS100J
	R621, 622	CARBON FILM RESISTOR	RD1/4PMF222J
	R625	CARBON FILM RESISTOR	RD1/4PMF101J
	R631, 632	CARBON FILM RESISTOR	RD1/4PMF222J
	R701	CARBON FILM RESISTOR	RD1/4PM332J
	R703	CARBON FILM RESISTOR	RD1/4PMF561J
	R704, 705	METAL OXIDE RESISTOR	RS2LMF102J
	R707	RESISTOR (2.2M, 1/2W)	ACN−209
	R715	METAL OXIDE RESISTOR	RS1LMF151J
	R752	CARBON FILM RESISTOR	RD1/2PM470J
		Other resistors	RD1/8PM□□□J

Mark	No.	Description	Parts No.
OTHERS			
		ANTENNA TERMINAL 4−P	AKA1014
		PIN JACK (4P)	AKB1101
		PHONO JACK 6−P	AKB1135
		JACK	AKN1006
		JACK	AKN1020
		AC OUTLET (3P)	AKP1053
		3 SERIAL F.E.MODULE ASSEMBLY	AXQ1003
		AM RF TUNING BLOCK	AXX1011
	X131	CRYSTAL RESONATOR	ASS1005

⊙ COMPLEX assemblies (AWZ3513 and AWZ3510)

The COMPLEX assemblies (AWZ3513 and AWZ3510) are the same as the COMPLEX assembly (AWZ3508) with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		AWZ3508	AWZ3513	AWZ3510	
	Q111	....	....	2SC1740S	
	D756	HSS104−02	....	....	
	RY561	ASR−112	ASR1037	ASR1037	
⚠	T751	ATT1011	ATT1015	ATT1015	
	F101, F102	ATF−107	ATF−107	....	
	F101	....	....	ATF−119	
	F102	....	....	ATF−107	
	F112	....	....	ATF−146	
	L151, L152	....	....	LAU470K	
	L561, L562	ATH1004	ATH1004	ATH1009	
	C126	....	....	CKDYB681K50	
	C127	....	....	CEAS100M50	
	C128	....	....	CCDSL330J50	
	C129	....	....	CKDYF103Z50	
	C130, C160	ACG1021	ACG1021	ACG1016	
	C151	CEANP4R7M35	CEANP4R7M35	CEAS100M50	
	C153, C154	CQMA152J50	CQMA102J50	CQMA102J50	
	C167	CCCSL101J50	CCCSL101J50	CCCSL221J50	
	C203, C204	....	....	CKDYB681K50	
	C205−C224	....	....	CKDYB391K50	
	C225, C226	....	....	CKDYB821K50	
	C527, C528	....	....	CCCSL221J50	
	C555, C556, C558	....	....	CEAS2R2M100	
	C701	ACH1200	....	....	
	C701 (8200/63)	....	ACH1158	ACH1158	
	C702	ACH1199	....	....	
	C702 (8200/63)	....	ACH1157	ACH1157	
	R126	....	....	RD1/8PM224J	
	R127	....	....	RD1/8PM473J	
	R128, R130	....	....	RD1/8PM472J	
	R129	....	....	RD1/8PM222J	
	R142	....	....	RD1/8PM102J	

Mark	
	R152
	R159, F
	R161, F
	R170
	R521, F
	R608
	R703
	R707
	R753
	4P
	2P
	Mi
⚠	3P
	3 S
	4 S

Parts No.

ΝAL AKA1014

AKB1101
AKB1135
AKN1006
AKN1020

AKP1053
ULE AXQ1003

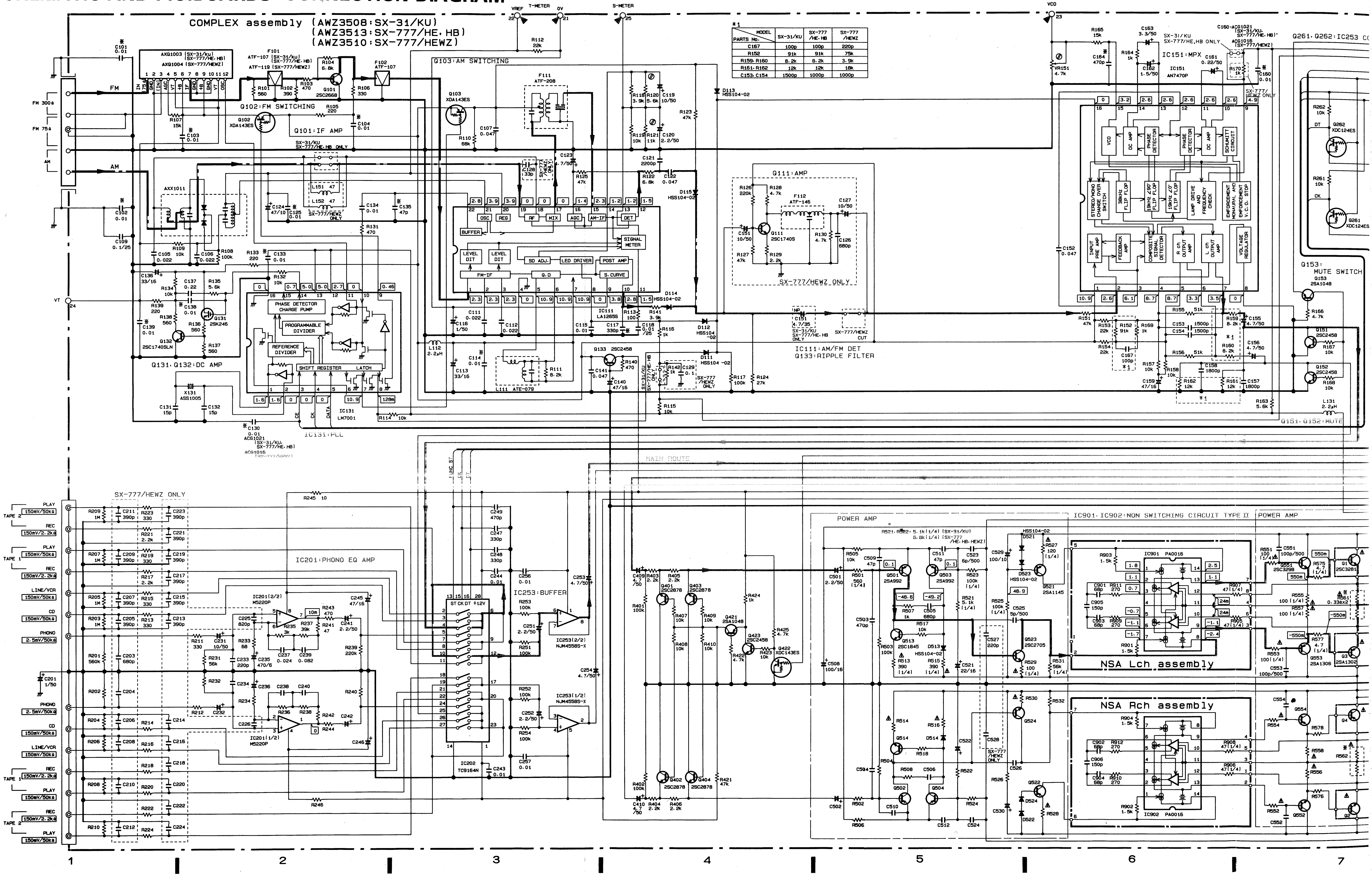
OCK AXX1011
ASS1005

⊙ COMPLEX assemblies (AWZ3513 and AWZ3510)

The COMPLEX assemblies (AWZ3513 and AWZ3510) are the same as the COMPLEX assembly (AWZ3508) with the exception of the following sections.

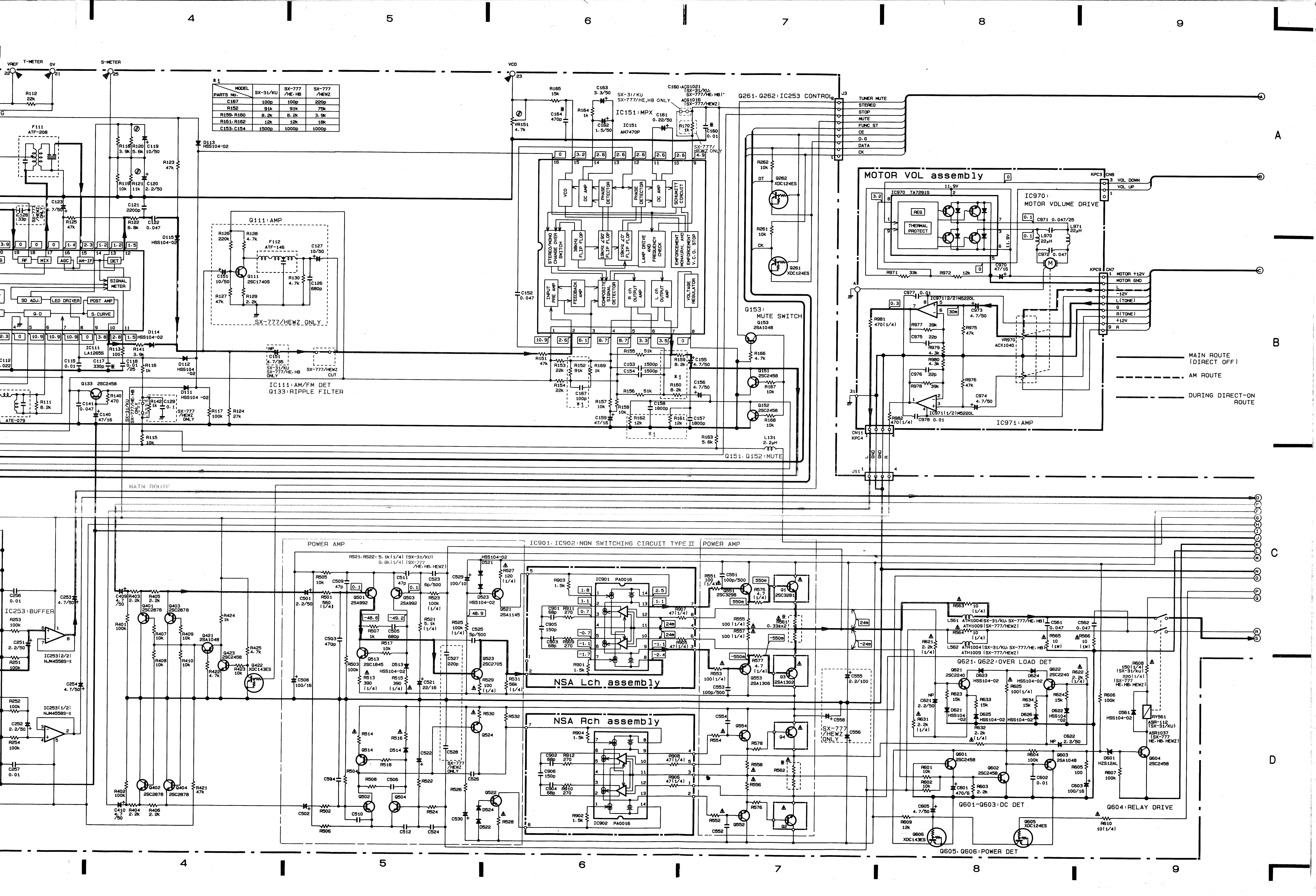
Mark	Symbol & Description	Part No.			Remarks
		AWZ3508	AWZ3513	AWZ3510	
	Q111	……………	……………	2SC1740S	
	D756	HSS104−02	……………	……………	
	RY561	ASR−112	ASR1037	ASR1037	
⚠	T751	ATT1011	ATT1015	ATT1015	
	F101, F102	ATF−107	ATF−107	……………	
	F101	……………	……………	ATF−119	
	F102	……………	……………	ATF−107	
	F112	……………	……………	ATF−146	
	L151, L152	……………	……………	LAU470K	
	L561, L562	ATH1004	ATH1004	ATH1009	
	C126	……………	……………	CKDYB681K50	
	C127	……………	……………	CEAS100M50	
	C128	……………	……………	CCDSL330J50	
	C129	……………	……………	CKDYF103Z50	
	C130, C160	ACG1021	ACG1021	ACG1016	
	C151	CEANP4R7M35	CEANP4R7M35	CEAS100M50	
	C153, C154	CQMA152J50	CQMA102J50	CQMA102J50	
	C167	CCCSL101J50	CCCSL101J50	CCCSL221J50	
	C203, C204	……………	……………	CKDYB681K50	
	C205−C224	……………	……………	CKDYB391K50	
	C225, C226	……………	……………	CKDYB821K50	
	C527, C528	……………	……………	CCCSL221J50	
	C555, C556, C558	……………	……………	CEAS2R2M100	
	C701	ACH1200	……………	……………	
	C701 (8200/63)	……………	ACH1158	ACH1158	
	C702	ACH1199	……………	……………	
	C702 (8200/63)	……………	ACH1157	ACH1157	
	R126	……………	……………	RD1/8PM224J	
	R127	……………	……………	RD1/8PM473J	
	R128, R130	……………	……………	RD1/8PM472J	
	R129	……………	……………	RD1/8PM222J	
	R142	……………	……………	RD1/8PM102J	
	R152	RD1/8PM913J	RD1/8PM913J	RD1/8PM753J	
	R159, R160	RD1/8PM822J	RD1/8PM822J	RD1/8PM392J	
	R161, R162	RD1/8PM123J	RD1/8PM123J	RD1/8PM183J	
	R170	……………	……………	RD1/8PM102J	
	R521, R522	RDR1/4PM512J	RDR1/4PM682J	RDR1/4PM682J	
	R608	RD1/4PMF151J	RD1/4PMF221J	RD1/4PMF221J	
	R703	RD1/4PMF561J	RD1/4PMF331J	RD1/4PMF331J	
	R707	ACN−209	……………	……………	
	R753	RD1/8PM102J	……………	……………	
	4P Antenna terminal	AKA1014	AKA1010	……………	
	2P Antenna terminal	……………	……………	AKA1012	
	Mini jack	AKN1020	……………	……………	
⚠	3P AC outlet	AKP1053	……………	……………	
	3 Serial F.E. module assembly	AXQ1003	AXQ1003	……………	
	4 Serial F.E. module assembly	……………	……………	AXQ1004	

3. SCHEMATIC AND P.C.BOARDS CONNECTION DIAGRAM


COMPLEX assembly (AWZ3508:SX-31/KU)
(AWZ3513:SX-777/HE. HB)
(AWZ3510:SX-777/HEWZ)
VREF
T-METER
0V
S-METER
VCO
AXQ1003 (SX-31/KU) (SX-777/HE. HB)
AXQ1004 (SX-777/HEWZ)
F101 ATF-107 (SX-31/KU) (SX-777/HE. HB)
ATF-119 (SX-777/HEWZ)
F102 ATF-107
FM
FM 300Ω
FM 75Ω
AM
Q101 2SC2668
Q102:FM SWITCHING
Q102 XDA143ES
Q101:IF AMP
Q103:AM SWITCHING
Q103 XDA143ES
F111 ATF-208
AXX1011
L151 47
L152 47
SX-31/KU SX-777/HE. HB ONLY
SX-777/HEWZ ONLY
D113 HSS104-02
D114 HSS104-02
D115 HSS104-02
D111 HSS104-02
D112 HSS104-02
OSC
REG
RF
MIX
AGC
AM-IF
DET
BUFFER
SIGNAL METER
LEVEL DIT
SD ADJ.
LED DRIVER
POST AMP
FM-IF
Q.D
S.CURVE
IC111 LA1265S
IC111:AM/FM DET
Q133:RIPPLE FILTER
Q133 2SC2458
L111 ATE-079
L112 2.2μH
Q111:AMP
Q111 2SC1740S
F112 ATF-146
SX-777/HEWZ ONLY
PHASE DETECTOR CHARGE PUMP
PROGRAMMABLE DIVIDER
REFERENCE DIVIDER
SHIFT REGISTER
LATCH
IC131 LM7001
IC131:PLL
X131 ASS1005
Q131 2SK246
Q132 2SC1740SLN
Q131, Q132:DC AMP
VT
CE
CK
DATA
C130 0.01 ACG1021 (SX-31/KU, SX-777/HE. HB) ACG1016 (SX-777/HEWZ)
MAIN ROUTE
IC151:MPX
IC151 AN7470P
VR151 4.7k
VCO
DC AMP
PHASE DETECTOR
SCHMITT CIRCUIT
STEREO/MONO CHANGE OVER SWITCH
38kHz FLIP FLOP
19kHz 0° FLIP FLOP
19kHz 90° FLIP FLOP
LAMP DRIVE AND FREQUENCY CHECK
ENFORCEMENT MONAURAL AND ENFORCEMENT V.C.O. STOP
INPUT PRE AMP
FEEDBACK AMP
COMPOSITE SIGNAL DETECTOR
R ch OUTPUT AMP
L ch OUTPUT AMP
VOLTAGE REGULATOR
C160:ACG1021 (SX-31/KU, SX-777/HE. HB) ACG1016 (SX-777/HEWZ)
SX-31/KU SX-777/HE,HB ONLY
SX-777/HEWZ ONLY
Q261, Q262:IC253
Q262 XDC124ES
Q261 XDC124ES
DT
CK
Q153:MUTE SWITCH
Q153 2SA1048
Q151 2SC2458
Q152 2SC2458
L131 2.2μH
Q151, Q152:MUTE
SX-777/HEWZ ONLY
PLAY
REC
TAPE 2
TAPE 1
150mV/50kΩ
150mV/2.2kΩ
LINE/VCR
CD
PHONO
2.5mV/50kΩ
IC201:PHONO EQ AMP
IC201(2/2) M5220P
IC201(1/2) M5220P
IC253:BUFFER
IC253(2/2) NJM4558S-X
IC253(1/2) NJM4558S-X
IC202 TC9164N
ST CK DT +12V
LINE ST
CD ST
TT
POWER AMP
R521, R522: 5.1k(1/4) (SX-31/KU) 6.8k(1/4) (SX-777/HE. HB. HEWZ)
IC901, IC902:NON SWITCHING CIRCUIT TYPE II
IC901 PA0016
IC902 PA0016
NSA Lch assembly
NSA Rch assembly
Q401 2SC2878
Q403 2SC2878
Q402 2SC2878
Q404 2SC2878
Q421 2SA1048
Q423 2SC2458
Q422 XDC143ES
Q501 2SA992
Q503 2SA992
Q513 2SC1845
D513 HSS104-02
Q521 2SA1145
D521 HSS104-02
D523 HSS104-02
Q523 2SC2705
Q551 2SC3298
Q553 2SA1306
SX-777/HEWZ ONLY
1
2
3
4
5
6
7

*1

MODEL / PARTS No.	SX-31/KU	SX-777 /HE. HB	SX-777 /HEWZ
C167	100p	100p	220p
R152	91k	91k	75k
R159, R160	8.2k	8.2k	3.9k
R161, R162	12k	12k	18k
C153, C154	1500p	1000p	1000p


4
5
6
7
8
9
A
B
C
D
T-METER
S-METER
VREF
0V
VCO
R112 22k
F111 ATF-208
D113 HSS104-02
R123 47k
C121 2200p
C122 0.047
D115 HSS104-02
RF
MIX
AGC
AM-IF
DET
SIGNAL METER
SD ADJ.
LED DRIVER
POST AMP
Q.D
S.CURVE
IC111 LA1265S
D114 HSS104-02
D112 HSS104-02
D111 HSS104-02
Q133 2SC2458
Q111:AMP
F112 ATF-146
Q111 2SC1740S
SX-777/HEWZ ONLY
IC111:AM/FM DET
Q133:RIPPLE FILTER
SX-777/HEWZ CUT
SX-31/KU SX-777/HE.HB ONLY
IC151:MPX
IC151 AN7470P
VR151 4.7k
SX-31/KU SX-777/HE,HB ONLY
C160:ACG1021 [SX-31/KU, SX-777/HE.HB]
ACG1016 [SX-777/HEWZ]
SX-777/HEWZ ONLY
VCO
DC AMP
PHASE DETECTOR
SCHMITT CIRCUIT
STEREO/MONO CHANGE OVER SWITCH
38kHz FLIP FLOP
19kHz 90° FLIP FLOP
19kHz 0° FLIP FLOP
LAMP DRIVE AND FREQUENCY CHECK
ENFORCEMENT MONAURAL AND ENFORCEMENT V.C.O. STOP
INPUT PRE AMP
FEEDBACK AMP
COMPOSITE SIGNAL DETECTOR
R ch OUTPUT AMP
L ch OUTPUT AMP
VOLTAGE REGULATOR
Q261.Q262:IC253 CONTROL
J3
TUNER MUTE
STEREO
STOP
MUTE
FUNC ST
CE
D.G
DATA
CK
Q262 XDC124ES
Q261 XDC124ES
Q153: MUTE SWITCH
Q153 2SA1048
Q151 2SC2458
Q152 2SC2458
Q151.Q152:MUTE
L131 2.2μH
MOTOR VOL assembly
KPC3 CN8
VOL DOWN
VOL UP
IC970 TA7291S
REG
THERMAL PROTECT
IC970: MOTOR VOLUME DRIVE
C971 0.047/25
L970 22μH
L971 22μH
C972 0.047
R971 33k
R972 12k
C970 47/16
KPC9 CN7
MOTOR +12V
MOTOR GND
L
-12V
L(TONE)
G
R(TONE)
+12V
R
IC971(2/2)M5220L
IC971(1/2)M5220L
VR970 ACX1040
IC971:AMP
CN11 KPC4
J11
MAIN ROUTE (DIRECT OFF)
AM ROUTE
DURING DIRECT-ON ROUTE
MAIN ROUTE
IC253:BUFFER
IC253(2/2) NJM4558S-X
IC253(1/2) NJM4558S-X
POWER AMP
IC901.IC902:NON SWITCHING CIRCUIT TYPE Ⅱ
R521.R522: 5.1k(1/4) (SX-31/KU) 5.8k(1/4) (SX-777/HE.HB.HEWZ)
Q401 2SC2878
Q403 2SC2878
Q421 2SA1048
Q423 2SC2458
Q422 XDC143ES
Q402 2SC2878
Q404 2SC2878
Q501 2SA992
Q503 2SA992
Q513 2SC1845
D513 HSS104-02
D521 HSS104-02
D523 HSS104-02
Q521 2SA1145
Q523 2SC2705
SX-777/HEWZ ONLY
IC901 PA0016
NSA Lch assembly
NSA Rch assembly
IC902 PA0016
Q551 2SC3298
Q553 2SA1306
Q1 2SC3281
Q3 2SA1302
SX-777/HEWZ ONLY
L561 ATH1004(SX-31/KU, SX-777/HE.HB)
L562 ATH1004(SX-31/KU, SX-777/HE.HB) ATH1009(SX-777/HEWZ)
Q621.Q622:OVER LOAD DET
Q621 2SC2240
Q622 2SC2240
D623 HSS104-02
D624 HSS104-02
RY561 ASR-112 (SX-31/KU) ASR1037 (SX-777 HE.HB.HEWZ)
D561 HSS104-02
D601 HZS12AL
Q604 2SC2458
Q601 2SC2458
Q602 2SC2458
Q603 2SA1048
Q601-Q603:DC DET
Q604:RELAY DRIVE
Q606 XDC143ES
Q605 XDC124ES
Q605.Q606:POWER DET

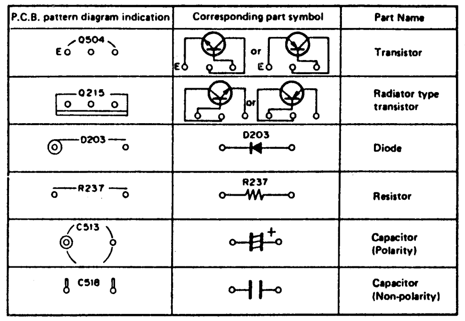
*1

MODEL / PARTS No.	SX-31/KU	SX-777 /HE.HB	SX-777 /HEWZ
C167	100p	100p	220p
R152	91k	91k	75k
R159.R160	8.2k	8.2k	3.9k
R161.R162	12k	12k	18k
C153.C154	1500p	1000p	1000p

FOR SX－31/KU, SX－777/HE AND HB TYPES

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

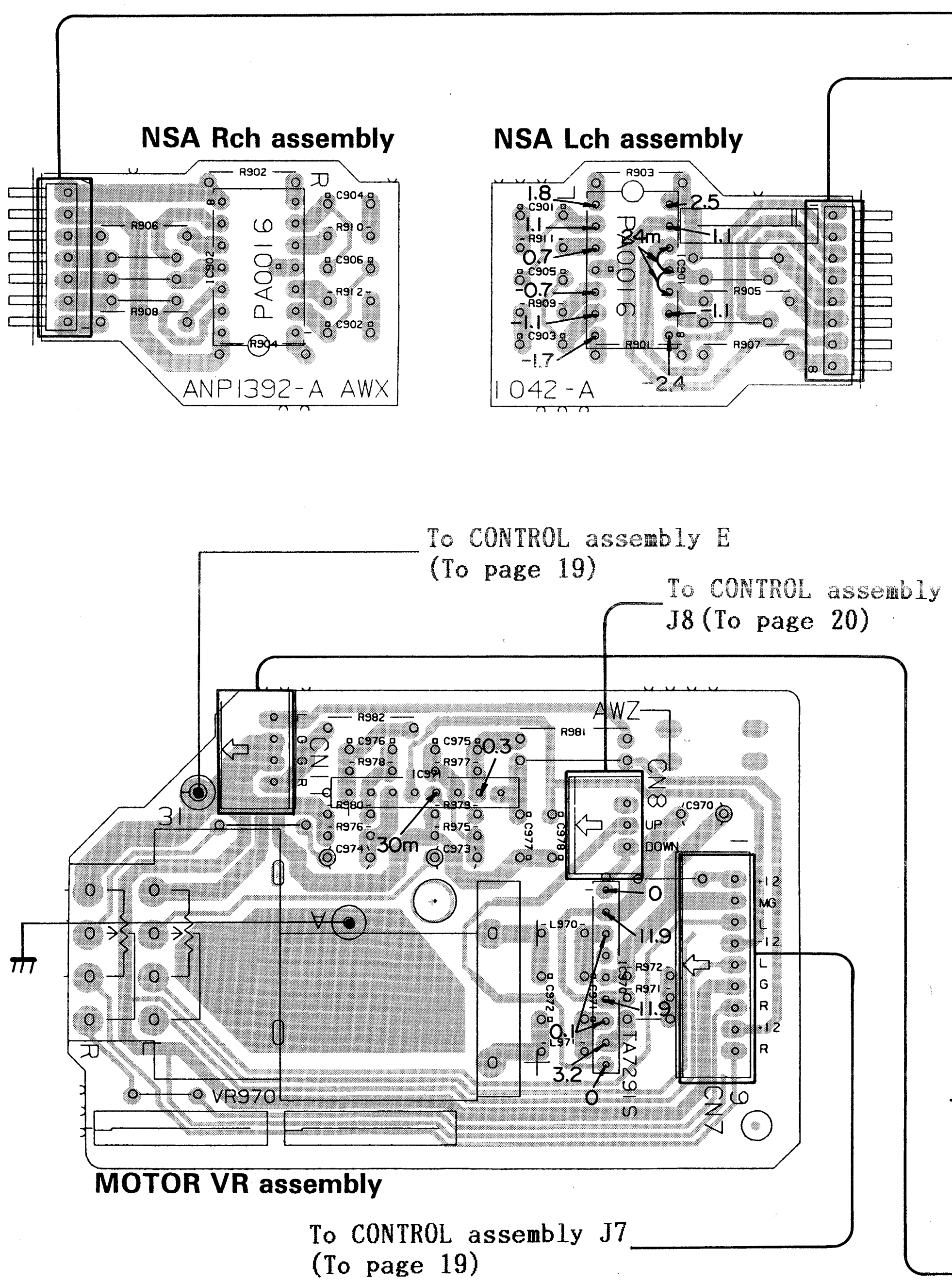


P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
E Q504	E or E	Transistor
Q215	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	+	Capacitor (Polarity)
C518		Capacitor (Non-polarity)

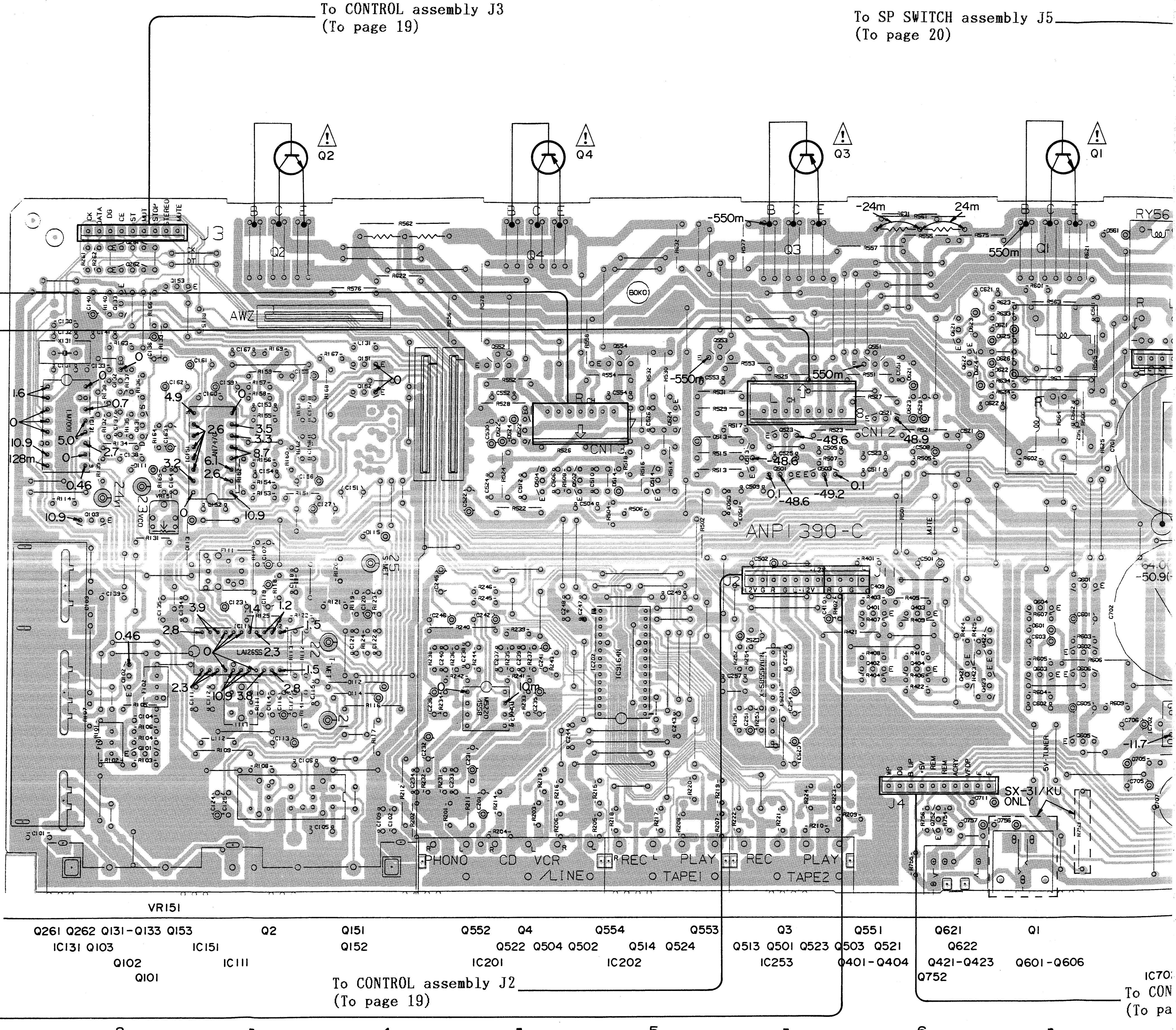
Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

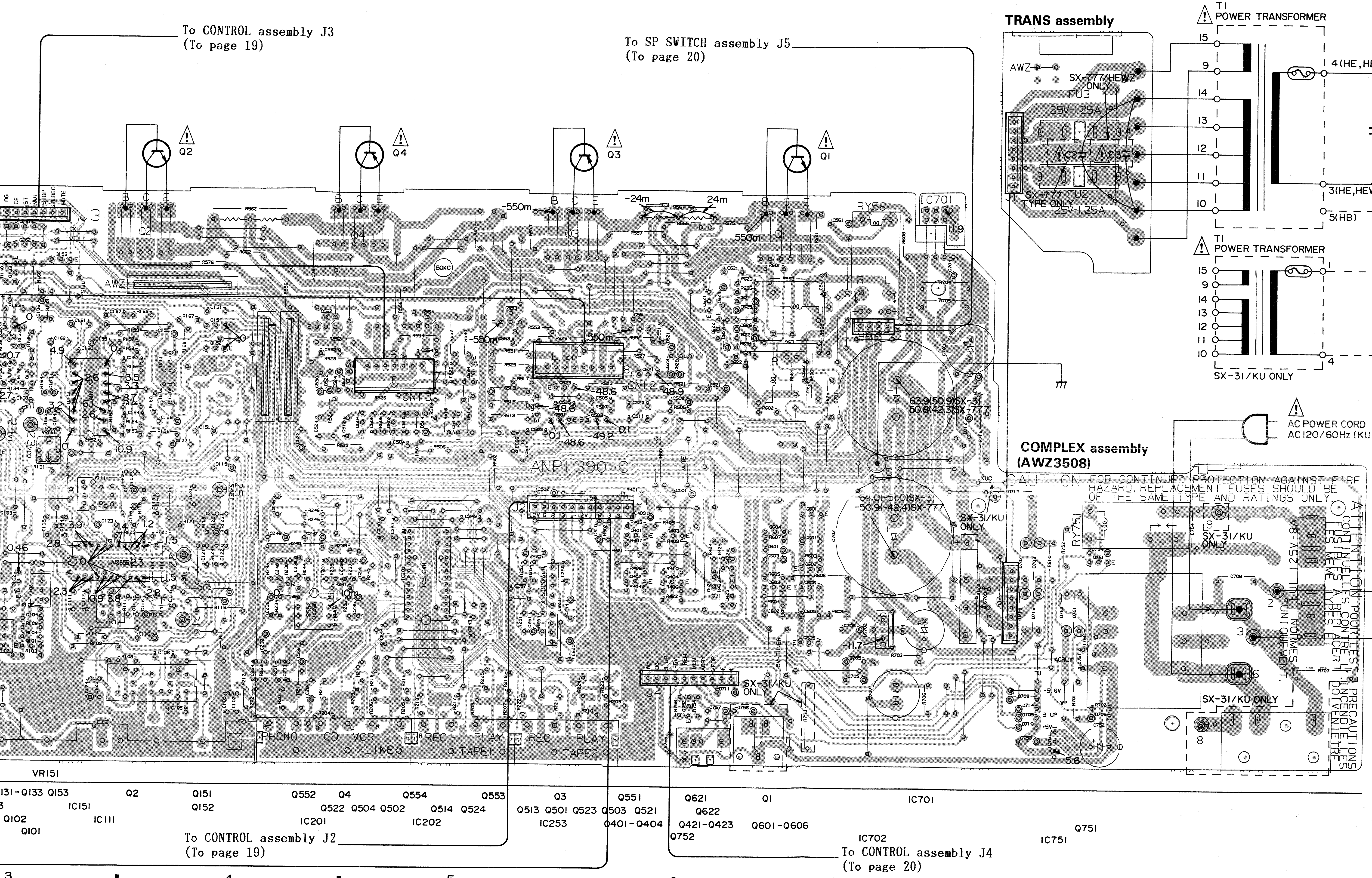
3. The capactor terminal marked with ◎(double circles) shows negatine termianl.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



NSA Rch assembly
NSA Lch assembly
PA0016
ANP1392-A AWX
1042-A
To CONTROL assembly E
(To page 19)
To CONTROL assembly J8 (To page 20)
CN8
CN1
CN7
AWZ
VR970
MOTOR VR assembly
To CONTROL assembly J7
(To page 19)



To CONTROL assembly J3
(To page 19)
To SP SWITCH assembly J5
(To page 20)
Q2
Q4
Q3
Q1
J3
CN13
CN12
AWZ
ANP1390-C
J4
J1
J2
SX-31/KU ONLY
PHONO
CD
VCR /LINE
REC TAPE1 PLAY
REC TAPE2 PLAY
VR151
Q261 Q262 Q131-Q133 Q153
IC131 Q103
Q102
Q101
IC151
IC111
Q2
Q151
Q152
Q552
IC201
Q4
Q522 Q504 Q502
Q554
Q514 Q524
IC202
Q553
Q3
Q513 Q501 Q523
IC253
Q551
Q503 Q521
Q401-Q404
Q621
Q622
Q421-Q423
Q752
Q1
Q601-Q606
To CONTROL assembly J2
(To page 19)



To CONTROL assembly J3
(To page 19)

To SP SWITCH assembly J5
(To page 20)

To CONTROL assembly J2
(To page 19)

To CONTROL assembly J4
(To page 20)

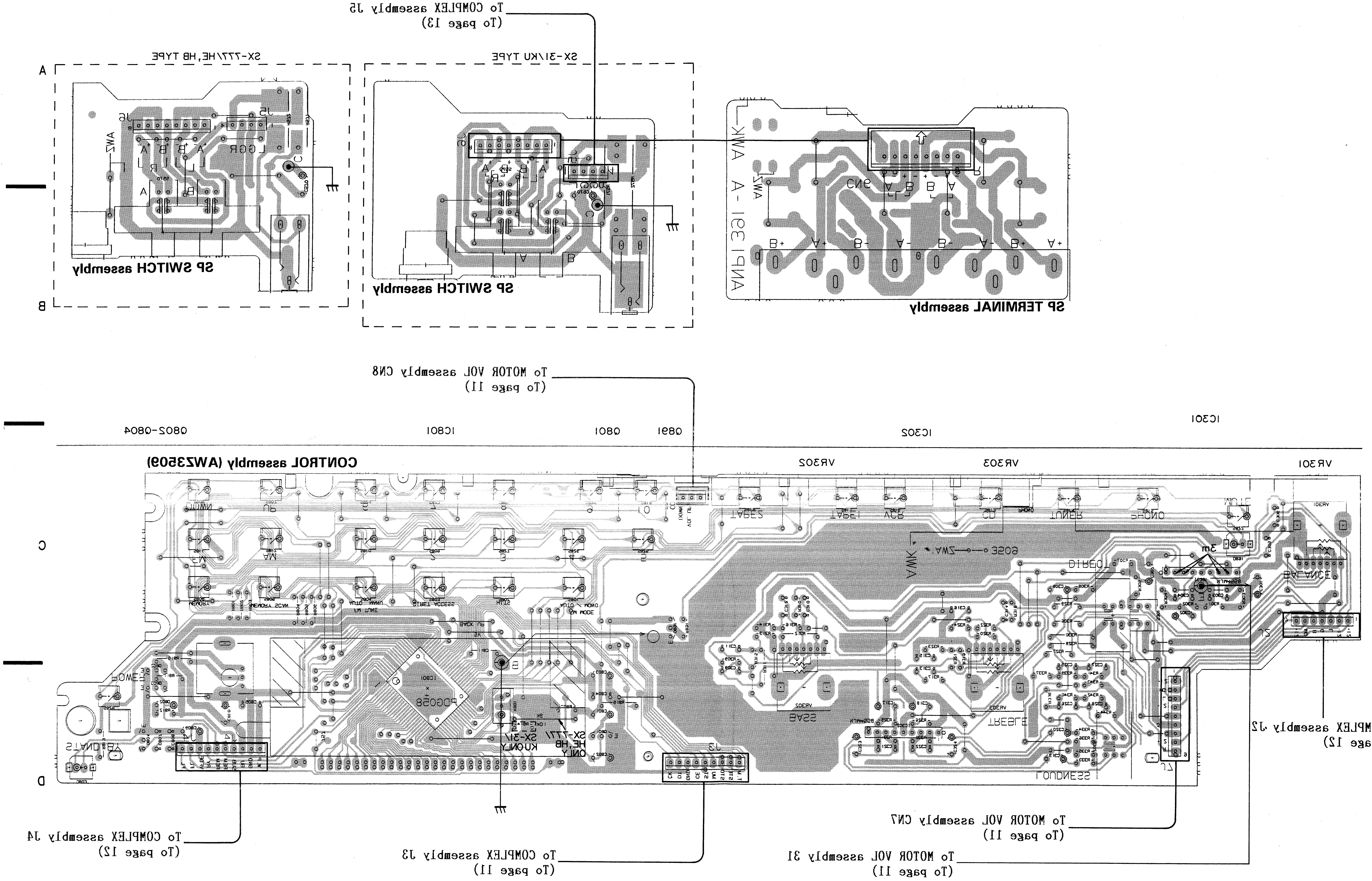
TRANS assembly

COMPLEX assembly
(AWZ3508)

CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.

ATTENTION POUR LES PRECAUTIONS CONTINUELLES CONTRE L'INCENDIE REPLACER LES FUSIBLES A DES TYPES DE NORMES UNIQUEMENT.

Q2
Q4
Q3
Q1
T1 POWER TRANSFORMER
4(HE,HB,HEWZ)
3(HE,HEWZ)
5(HB)
C1
SX-777/HEWZ ONLY
FU3
125V-1.25A
C2
C3
SX-777 FU2 TYPE ONLY
125V-1.25A
AWZ
15
9
14
13
12
11
10
4
SX-31/KU ONLY
AC POWER CORD
AC120/60Hz (KU)
ANP1390-C
CN13
CN12
RY561
IC701
J5
J3
J2
J4
-550m
550m
-24m
24m
-48.6
-49.2
48.9
0.1
11.9
63.9(50.9)SX-31
50.8(42.3)SX-777
-64.0(-51.0)SX-31
-50.9(-42.4)SX-777
-11.7
5.6
SX-31/KU ONLY
FU1 125V-8A
RY751
PHONO
CD
VCR
/LINE
REC
PLAY
TAPE1
TAPE2
VR151
Q131-Q133 Q153
Q102
Q101
IC151
IC111
Q2
Q151
Q152
Q552
Q4
Q522 Q504 Q502
IC201
Q554
Q514 Q524
IC202
Q553
Q3
Q513 Q501 Q523
IC253
Q551
Q503 Q521
Q401-Q404
Q621
Q622
Q421-Q423
Q752
Q1
Q601-Q606
IC701
IC702
IC751
Q751
A
B
C
D
3
4
5
6
7
8
9


To COMPLEX assembly J5
(To page 13)
SX-777/HE, HB TYPE
SX-31/KU TYPE
SP SWITCH assembly
SP SWITCH assembly
SP TERMINAL assembly
To MOTOR VOL assembly CN8
(To page 11)
Q802-Q804
IC801
Q801
Q891
IC302
IC301
CONTROL assembly (AWZ3509)
VR302
VR303
VR301
To COMPLEX assembly J2
(To page 12)
To MOTOR VOL assembly CN7
(To page 11)
To MOTOR VOL assembly 31
(To page 11)
To COMPLEX assembly J3
(To page 11)
To COMPLEX assembly J4
(To page 12)
A
B
C
D
6
5
4
3
2
1

NOTE

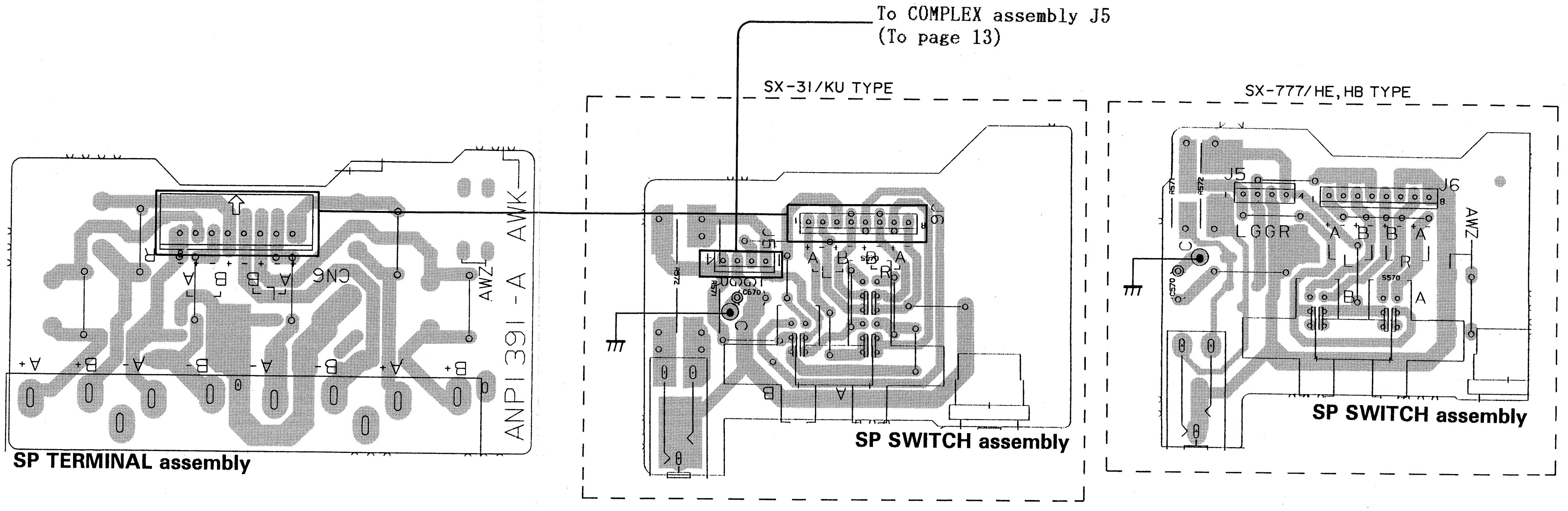
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
0504 E	E or E	Transistor
0215	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	+	Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

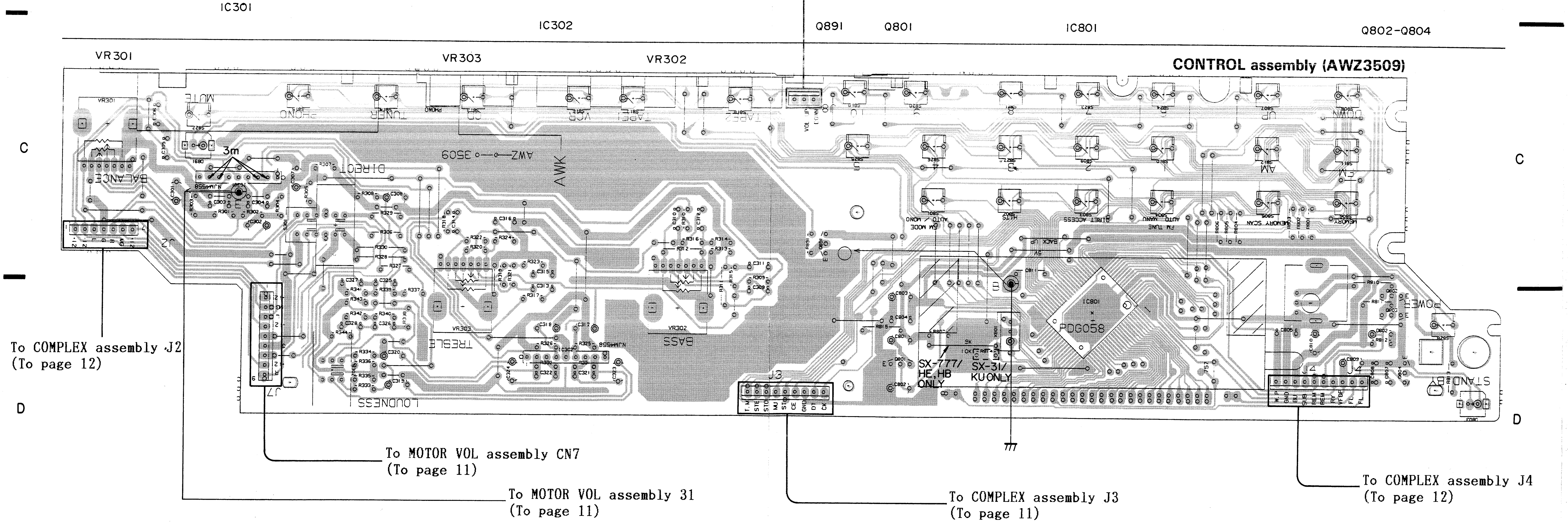
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capactor terminal marked with ◎(double circles) shows negatine termianl.
4. The diode terminal marked with ◎ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



To COMPLEX assembly J5
(To page 13)
SX-31/KU TYPE
SX-777/HE, HB TYPE
SP TERMINAL assembly
SP SWITCH assembly
SP SWITCH assembly
CN6
ANP1391-A AWK
AWZ
J5
J6
S570
C570
C670
L G G R
A B B A
+A +B -B -A -A -B -A +B

To MOTOR VOL assembly CN8
(To page 11)



IC301
IC302
Q891
Q801
IC801
Q802-Q804
VR301
VR303
VR302
CONTROL assembly (AWZ3509)
MUTE
PHONO
TUNER
CD
VCR
TAPE1
TAPE2
VOL UP DOWN
BALANCE
DIRECT
AWZ—3509
AWK
3m
NJM4558
J2
J7
TREBLE
BASS
LOUDNESS
FM MODE
AUTO / MONO
HITS
DIRET ACCESS
FM TUNE
AUTO MANU
MEMORY SCAN
MEMORY
AM
FM
UP
DOWN
BACK UP
5V
PDG058
IC801
SX-777/ HE, HB ONLY
SX-31/ KU ONLY
J3
T. M STE STD MU ST CE GND DT CK
J4
W P GND BU SUB REM REM RY VFDE FL FL
POWER
STANDBY

To COMPLEX assembly J2
(To page 12)

To MOTOR VOL assembly CN7
(To page 11)

To MOTOR VOL assembly 31
(To page 11)

To COMPLEX assembly J3
(To page 11)

To COMPLEX assembly J4
(To page 12)

FOR SX−777/HEWZ TYPE

- As to the other assemblies, refer to " FOR SX−31/KU, SX−777/HE AND HB TYPES ".

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

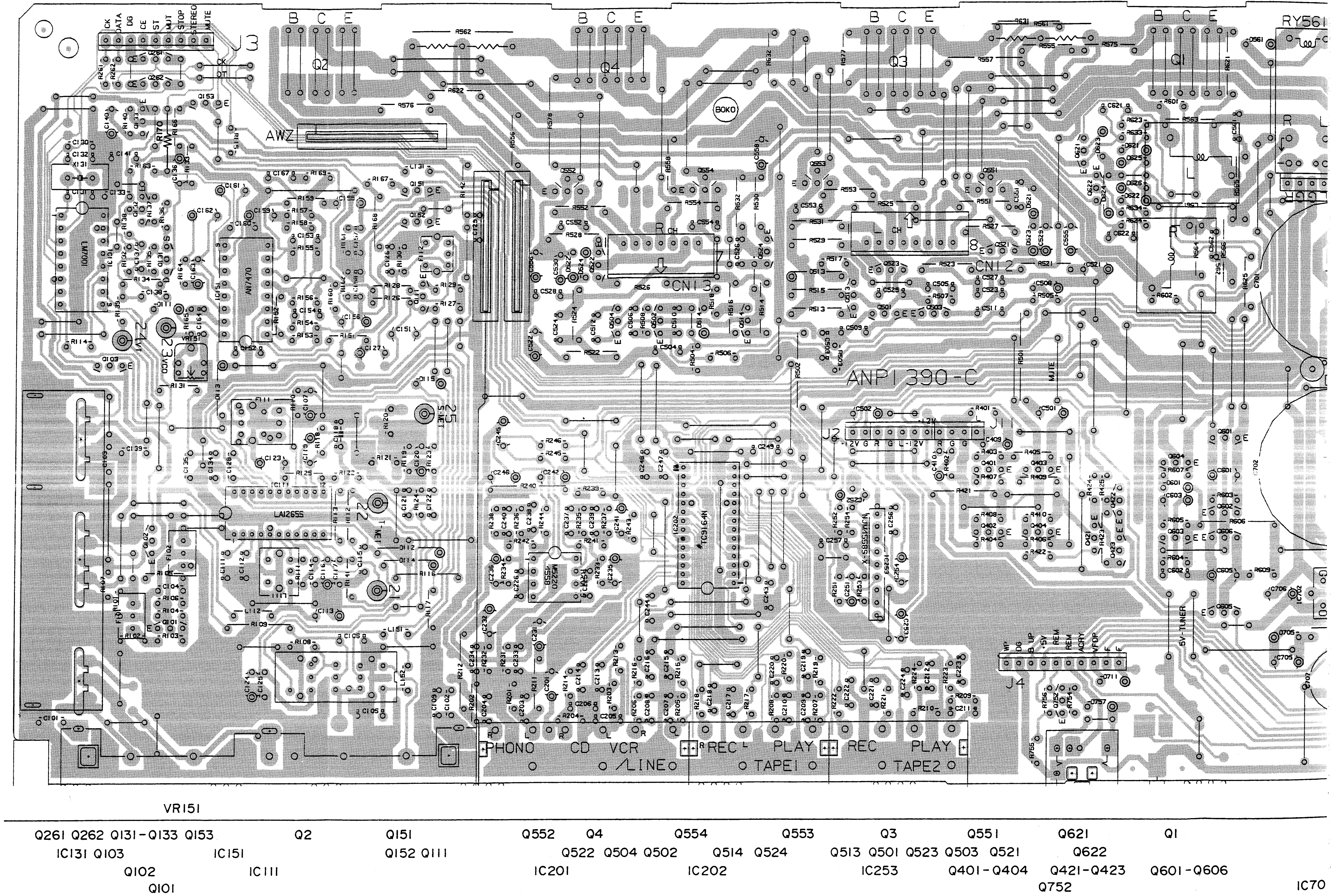
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
E Q504	E or E	Transistor
Q215	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	+	Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

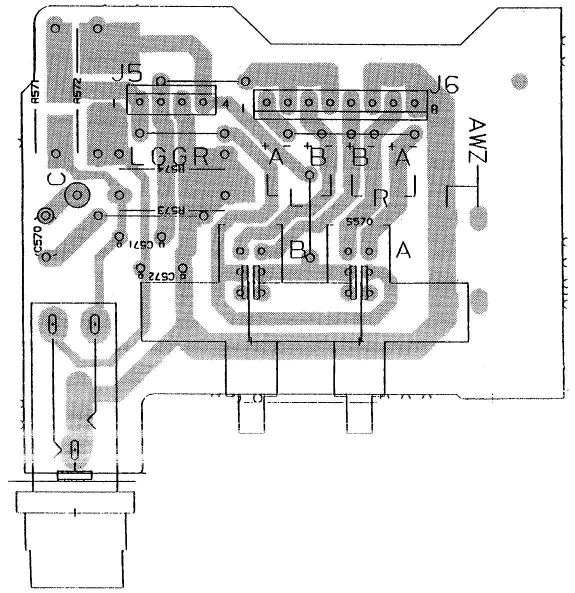
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

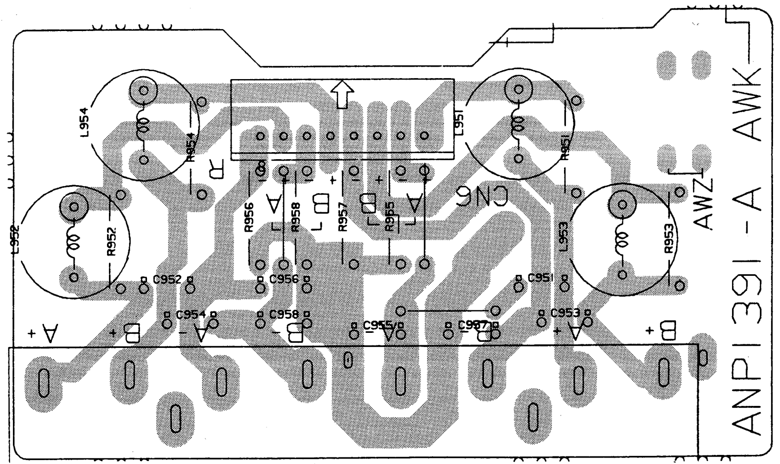
3. The capactor terminal marked with ◎(double circles) shows negatine termianl.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

COMPLEX assembly (AWZ3510)


CK
DATA
DG
CE
ST
MUT
STOP
STEREO
MUTE
J3
B C E
Q2
Q4
Q3
Q1
RY561
AWZ
BOKO
R562
R622
R576
R621
R561
R575
R557
CN13
CN12
LM7001
AN7470
LA1265S
LC7537N
LC9164N
ANP1390-C
MUTE
J2
J1
J4
SV TUNER
PHONO
CD
VCR
/LINE
REC
PLAY
TAPE1
TAPE2
VR151
Q261 Q262 Q131-Q133 Q153
IC131 Q103
Q102
Q101
IC151
IC111
Q2
Q151
Q152 Q111
Q552
Q4
Q522 Q504 Q502
IC201
Q554
Q514 Q524
IC202
Q553
Q3
Q513 Q501 Q523 Q503 Q521
IC253
Q551
Q401-Q404
Q621
Q622
Q421-Q423
Q752
Q1
Q601-Q606
IC70

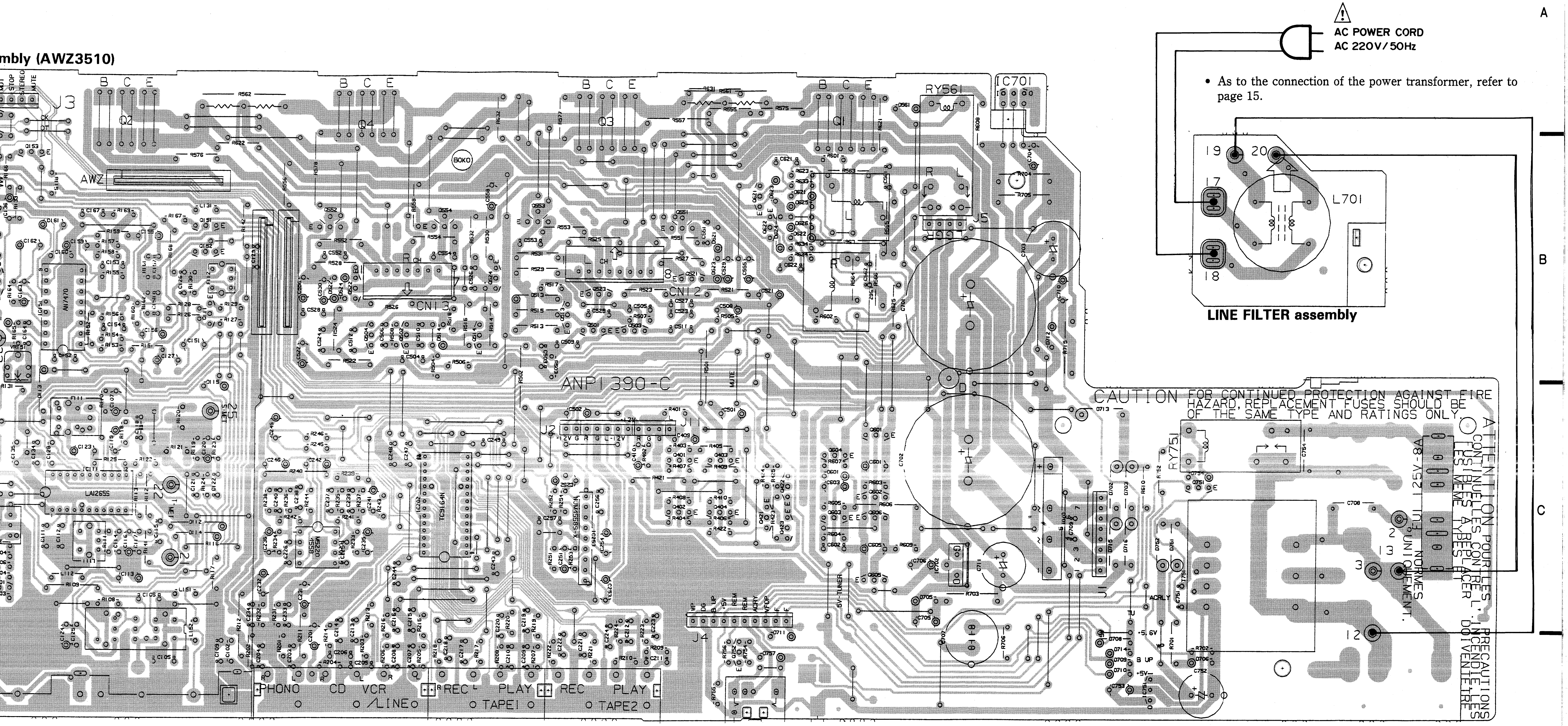
SP SWITCH assembly


J5
J6
AWZ
R571
R572
L G G R
A B B A
S570
C570
R573
C571
C572


L954
R954
L951
R951
L952
R952
L953
R953
R956
R958
R957
R955
CN6
AWZ
ANP1391-A AWK
C952
C956
C951
C954
C958
C955
C957
C953
+A
+B

SP TERMINAL assembly

mbly (AWZ3510)


AC POWER CORD
AC 220V/50Hz
J3
STOP
STEREO
MUTE
B C E
Q2
Q4
Q3
Q1
Q153
AWZ
BOKO
RY561
IC701
AN7470
LA1265S
CN13
CN12
J5
L701
17
18
19
20
ANP1390-C
J2
J1
J4
RY751
125V-8A
2
3
12
13
+5.6V
B UP
+5V
ACRLY
5V-TUNER
TC9164N
PHONO
CD
VCR
/LINE
REC
PLAY
TAPE1
REC
PLAY
TAPE2
CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.
ATTENTION POUR LES PRECAUTIONS CONTINUELLES CONTRE L'INCENDIE LES FUSIBLES A REMPLACER DOIVENT ETRE LES MEME TYPES ET NORMES UNIQUEMENT.
A
B
C

- As to the connection of the power transformer, refer to page 15.

LINE FILTER assembly

R151

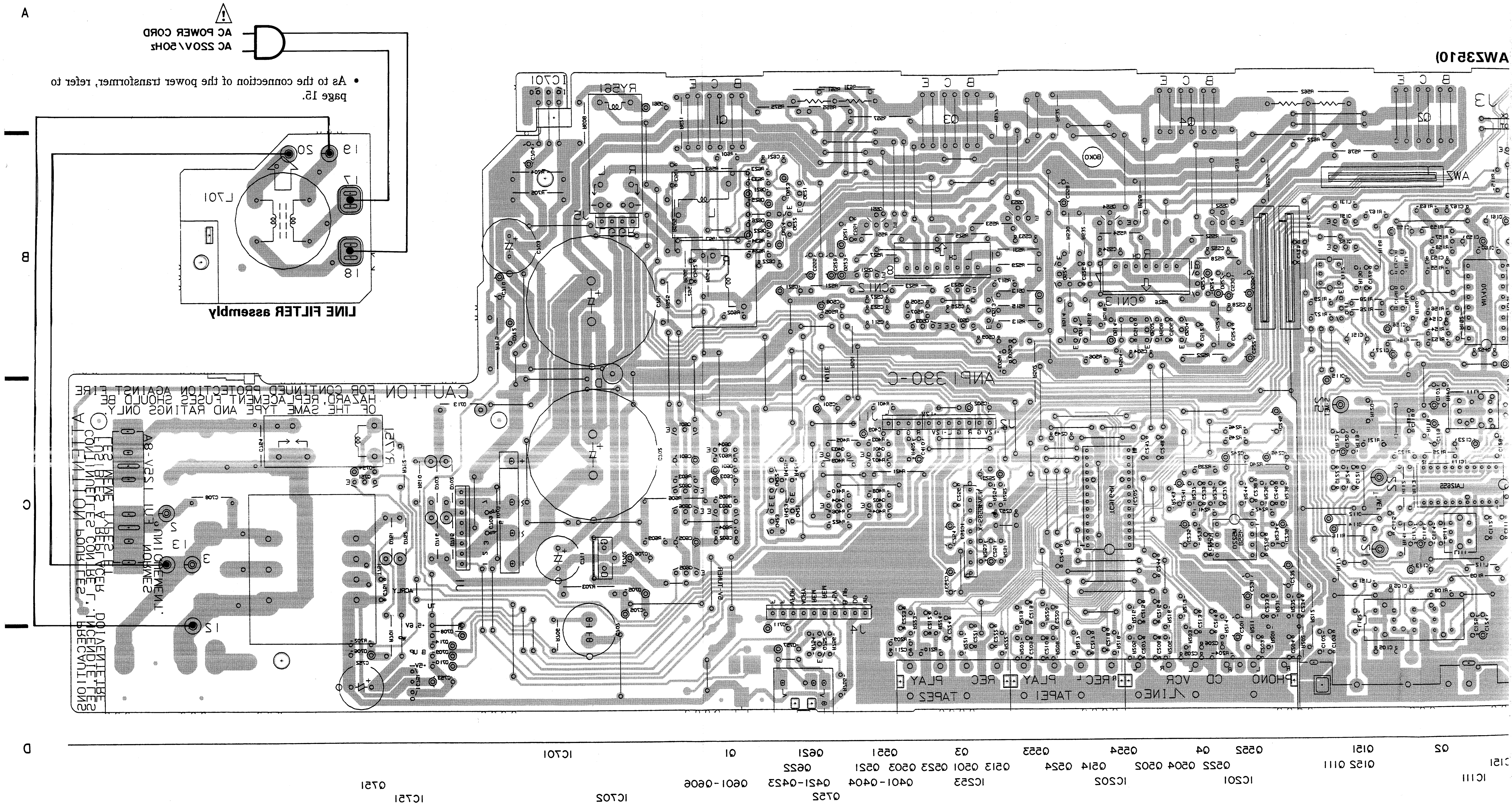
3 Q153 Q2 Q151 Q552 Q4 Q554 Q553 Q3 Q551 Q621 Q1 IC701

IC151 Q152 Q111 Q522 Q504 Q502 Q514 Q524 Q513 Q501 Q523 Q503 Q521 Q622

IC111 IC201 IC202 IC253 Q401-Q404 Q421-Q423 Q601-Q606 Q751

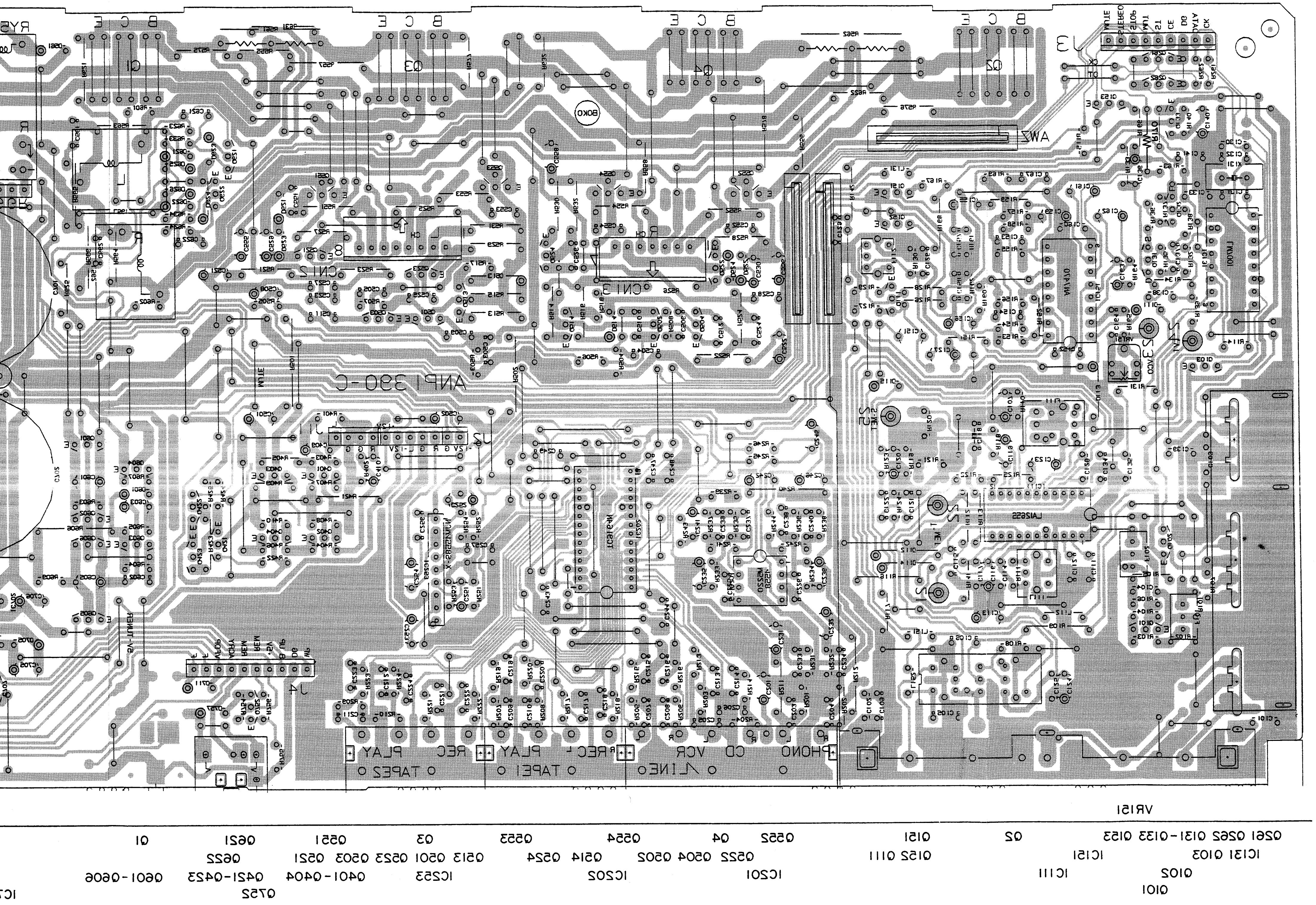
Q752 IC702 IC751

D

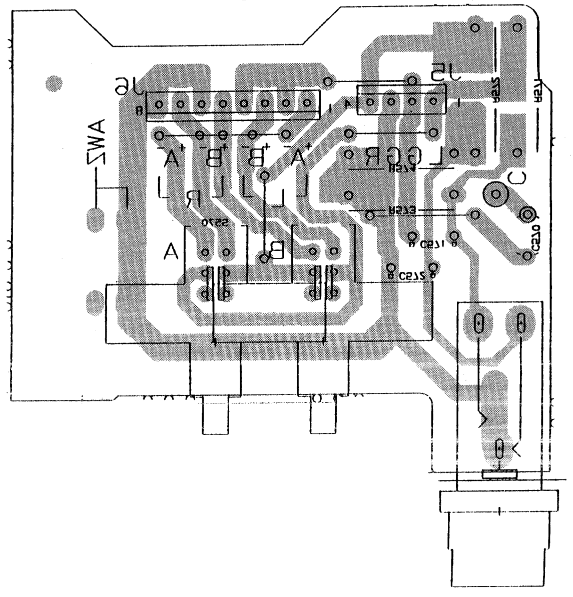

AC POWER CORD
AC 220V/50Hz
(AWZ3510)
LINE FILTER assembly
L701
ANP1390-C
CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.
ATTENTION
IC701
RY561
Q1
Q3
Q4
Q2
CN12
CN13
J3
J4
J5
PHONO
CD
VCR
LINE
REC
PLAY
TAPE1
TAPE2
IC701
Q1
Q621
Q622
Q551
Q521
Q503
Q523
Q501
Q513
Q3
Q553
Q554
Q514
Q524
Q504
Q502
Q522
Q4
Q552
Q151
Q152
Q111
Q2
IC751
Q751
IC702
Q601-Q606
Q421-Q423
Q752
Q401-Q404
IC253
IC202
IC201
IC111
IC151

- As to the connection of the power transformer, refer to page 15.

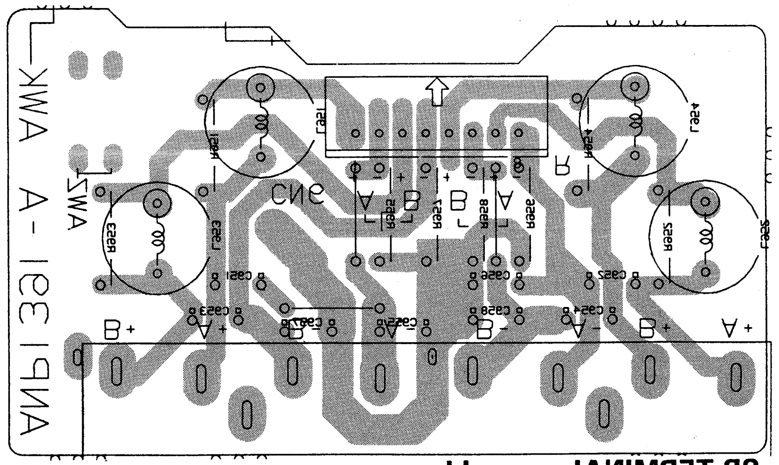
COMPLEX assembly (AWZ3510)

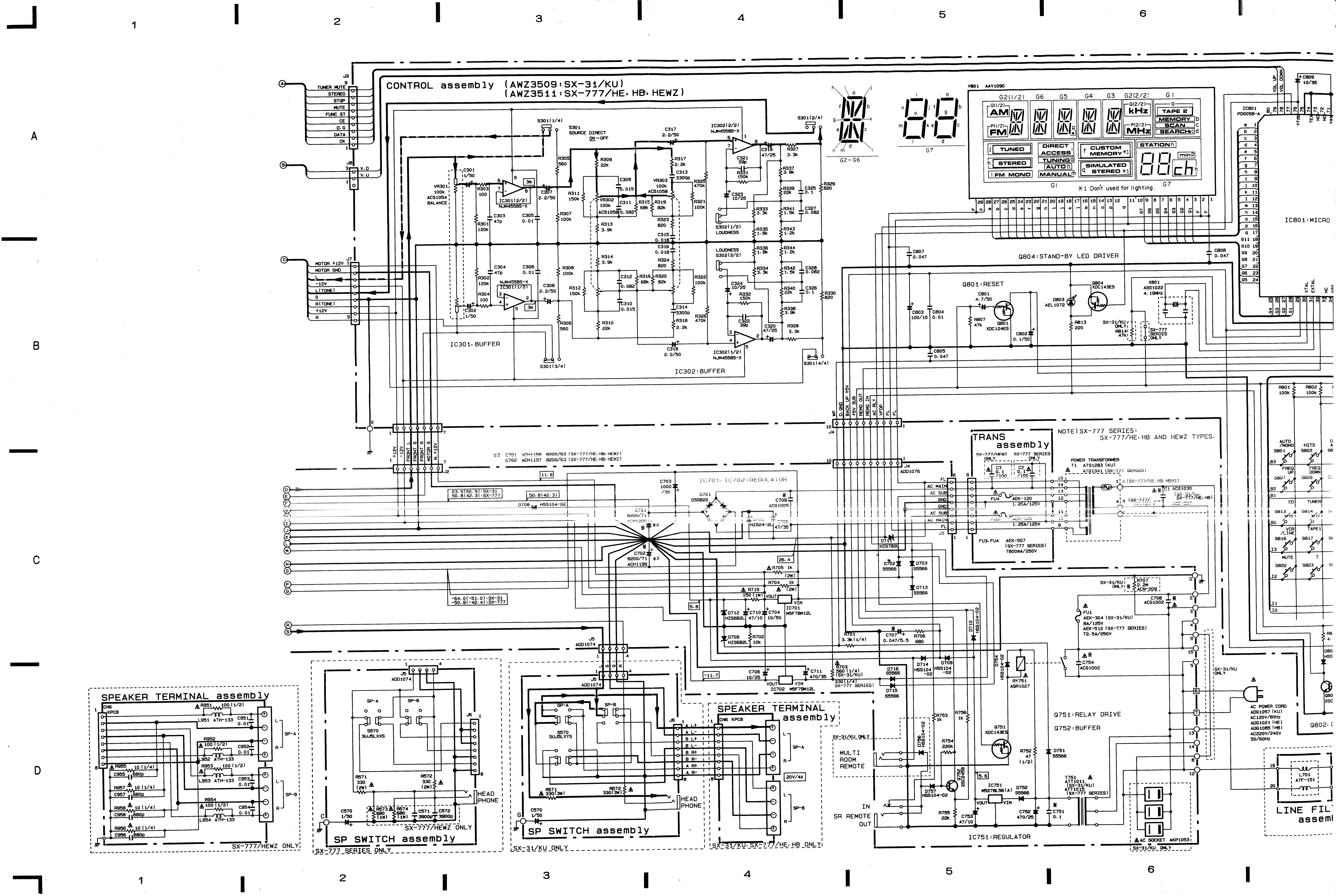

ANP1390-C
PHONO
CD
VCR
LINE
TAPE1
PLAY
REC
TAPE2
VR151
Q261 Q262 Q131-Q133 Q153
IC131 Q103
Q102
Q101
Q2
IC151
IC111
Q151
Q152 Q111
Q552
Q4
Q522 Q504 Q502
IC201
Q554
Q514 Q524
IC202
Q553
Q3
Q513 Q501
IC253
Q551
Q523 Q503 Q521
Q421-Q423 Q421-Q404
Q621
Q622
Q752
Q601-Q606
Q1

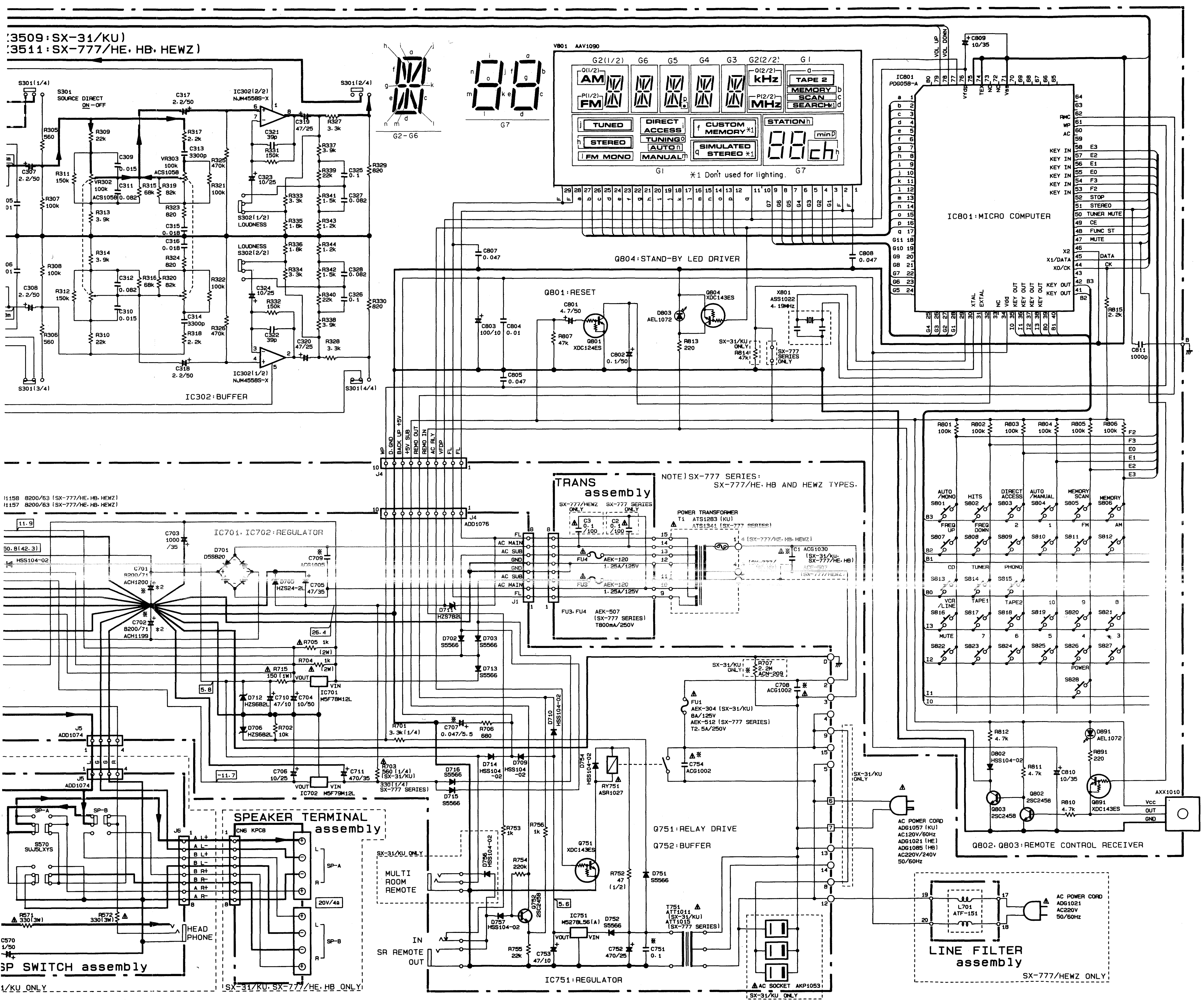
SP SWITCH assembly



SP TERMINAL assembly


AWK-A
ANP1391-A
CN6
AWZ
A+
B+
A-
B-


CONTROL assembly (AWZ3509:SX-31/KU)
(AWZ3511:SX-777/HE,HB,HEWZ)
IC301:BUFFER
IC302:BUFFER
IC301(2/2) NJM4558S-X
IC301(1/2) NJM4558S-X
IC302(2/2) NJM4558S-X
IC302(1/2) NJM4558S-X
S301 SOURCE DIRECT ON-OFF
S302(1/2) LOUDNESS
LOUDNESS S302(2/2)
VR301 100k ACS1054 BALANCE
VR302 100k ACS1058
VR303 100k ACS1058
J3
TUNER MUTE
STEREO
STOP
MUTE
FUNC ST
CE
D.G
DATA
CK
J8
V.D
V.U
J7
MOTOR +12V
MOTOR GND
L
-12V
L(TONE)
G
R(TONE)
+12V
R
V801 AAV1090
G2(1/2) G6 G5 G4 G3 G2(2/2) G1
AM
FM
kHz
MHz
TAPE 2
MEMORY
SCAN
SEARCH
TUNED
STEREO
FM MONO
DIRECT ACCESS
TUNING
AUTO
MANUAL
CUSTOM MEMORY
SIMULATED STEREO
STATION
min
ch
G2-G6
G7
*1 Don't used for lighting.
IC801 PDG058-A
IC801:MICRO
VOL UP
VOL DOWN
Q804:STAND-BY LED DRIVER
Q801:RESET
Q801 XDC124ES
Q804 XDC143ES
D803 AEL1072
X801 ASS1022 4.19MHz
SX-31/KU ONLY
SX-777 SERIES ONLY
J4 ADD1076
J2
J1
J5 ADD1074
J6
NOTE) SX-777 SERIES: SX-777/HE,HB AND HEWZ TYPES.
TRANS assembly
POWER TRANSFORMER T1 ATS1283 (KU) ATS1341 (SX-777 SERIES)
FU3,FU4 AEK-507 (SX-777 SERIES) T800mA/250V
FU4 AEK-120 1.25A/125V
FU3 AEK-120 1.25A/125V
C1 ACG1030
*2 C701 ACH1158 8200/63 (SX-777/HE,HB,HEWZ)
C702 ACH1157 8200/63 (SX-777/HE,HB,HEWZ)
IC701,IC702:REGULATOR
D701 D5SB20
IC701 M5F78M12L
IC702 M5F79M12L
FU1 AEK-304 (SX-31/KU) 8A/125V AEK-512 (SX-777 SERIES) T2.5A/250V
RY751 ASR1027
Q751:RELAY DRIVE
Q752:BUFFER
Q751 XDC143ES
Q752 2SC2458
IC751 M5278L56(A)
IC751:REGULATOR
T751 ATT1011 (SX-31/KU) ATT1015 (SX-777 SERIES)
AC POWER CORD ADG1057 (KU) AC120V/60Hz ADG1021 (HE) ADG1085 (HB) AC220V/240V 50/60Hz
AC SOCKET AKP1053
SX-31/KU ONLY
MULTI ROOM REMOTE
IN SR REMOTE OUT
L701 ATF-151
LINE FILTER assembly
SPEAKER TERMINAL assembly
CN6 KPC8
SP-A
SP-B
SX-777/HEWZ ONLY
SP SWITCH assembly
S570 SUJ5LXXS
S570 SUJ5LXYS
HEAD PHONE
SX-777 SERIES ONLY
SX-31/KU ONLY
SX-31/KU,SX-777/HE,HB ONLY
20V/4Ω
1 2 3 4 5 6
A B C D


3509: SX-31/KU)
3511: SX-777/HE, HB, HEWZ)
IC302: BUFFER
V801 AAV1090
IC801 PDG058-A
IC801: MICRO COMPUTER
Q804: STAND-BY LED DRIVER
Q801: RESET
X801 ASS1022 4.19MHz
IC701, IC702: REGULATOR
TRANS assembly
NOTE) SX-777 SERIES: SX-777/HE, HB AND HEWZ TYPES.
POWER TRANSFORMER T1 ATS1283 (KU) ATS1341 (SX-777 SERIES)
Q751: RELAY DRIVE
Q752: BUFFER
IC751: REGULATOR
SPEAKER TERMINAL assembly
SP SWITCH assembly
MULTI ROOM REMOTE
SR REMOTE
HEAD PHONE
AC POWER CORD
AC SOCKET AKP1053
LINE FILTER assembly
SX-777/HEWZ ONLY
Q802, Q803: REMOTE CONTROL RECEIVER
AXX1010
*1 Don't used for lighting.

1. RESISTORS:
Indicated in Ω, ¼W, ⅛W, ±5% tolerance unless otherwise noted k : kΩ, M : MΩ, (F) : ±1%, (G) : ±2%, (K) : ±10% (M); ±20% tolerance

2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted p : pF
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE, CURRENT:
▭ : Signal voltage at (W +   W   8Ω)output (1kHz)
▭ : DC voltage (V) at no input signal
Value in (   ) is DC voltage at rated power.
⇦ mA : DC current at no input signal

4. OTHERS:
➡ : Signal route.
⊘ : Adjusting point.
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
※ marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

SWITCHES:

SP SWITCH assembly

S570	SP A ON-OFF / SP B ON-OFF

CONTROL assembly

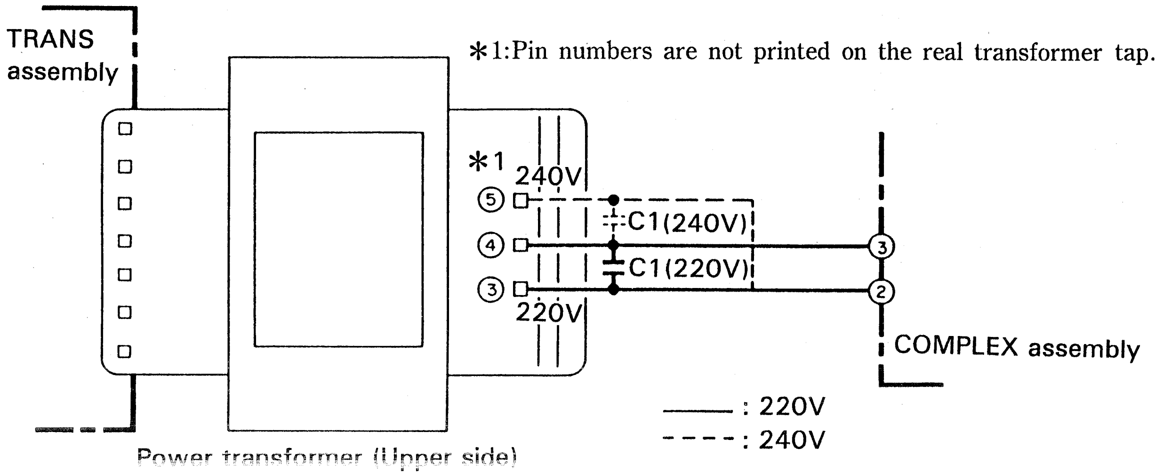
S801	FM MODE AUTO/MONO
S802	HITS
S803	DIRECT ACCESS
S804	FM TUNING AUTO/MANUAL
S805	MEMOLY SCANS
S806	MEMOLY
S807	FREQ UP
S808	FREQ DOWN
S809	2
S810	1
S811	FM
S812	AM
S813	CD
S814	TUNER
S815	PHONO
S816	VCR/LINE
S817	TAPE 1/DAT
S818	TAPE 2/ADAPTOR
S819	10
S820	9
S821	8
S822	MUTE
S823	7
S824	6
S825	5
S826	4
S827	3
S828	POWER STAND-BY/ON
S301	DIRECT ON/OFF
S302	LOUDNESS

Line voltage selection
(For SX−777/HE, HB and HEWZ types.)

Line voltage can be changed with the following steps.

1. Disconnect the AC Power cord.
2. Remove the top cover.
3. Change the connection of the power transformer primary taps.
4. Change the connection to the capacitor (C1) on the primary side of the power transformer.
5. Stick the line voltage label on the rear panel.

Part No.	Description
AAX−193	220V label
AAX−192	240V label


TRANS assembly
*1
240V
⑤
④
③
C1(240V)
C1(220V)
220V
③
②
COMPLEX assembly
——— : 220V
- - - - : 240V
Power transformer (Upper side)

*1:Pin numbers are not printed on the real transformer tap.